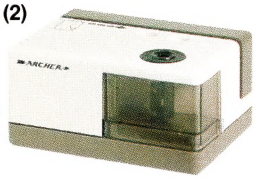
Tandy ELECTRONICS

1988/89 CATALOGUE

148 Pages of Exciting Electronic Products
Store Addresses Pages 74 & 75
Index Page 2
Catalogue No. 265

QUALITY ELECTRONIC ACCESSORIES

Convenient Electronics



79⁹⁵

NEW FOR 89 **24⁹⁵**

(1) Rangemeter. Ideal for measuring rooms for painting, carpets, anything. **61-9109 . 79.95**

(2) Letter Opener and Pencil Sharpener. Requires AC adapter or batteries. **61-9795 . 24.95**

Travel Adapters

(3) Plug Australian appliances into foreign sockets. British adapter/European adapter, 2 round pins earthed. American adapter, 2 pins flat.
61-9703 . . . . . Set of 3/21.95

(4) International Traveller Adapter. Converts our 3-pin plug to virtually anything used in the world.
61-9704 . . . . . 24.95

(5) Adapter for Loads. 1650W/240V/110V. **61-9714 . . . . . 64.95**
65W 240V/110V. 61-9715 . . . . . 64.95

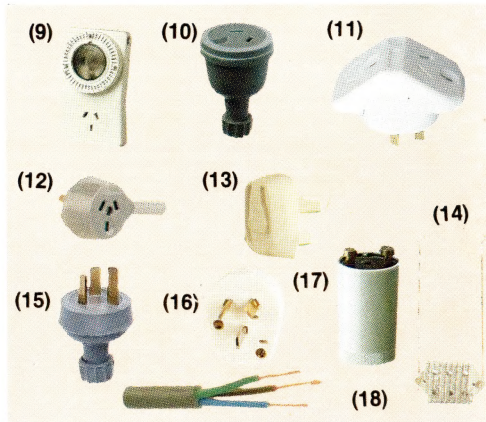
(6) Aussie Adapter. Adapts Australian mains socket to accommodate 2-pin Japan/USA plug configurations.
61-9733 . . . . . 7.95

Power Packs

(7) Power Mate Board. Has 6 outlets, noise/spike filter, surge absorber and circuit breaker. **61-9530 . . . . . 49.95**

(8) Multiple Power Outlet. Features 4 AC outlets with overload cut-out switch.
61-9518 . . . . . 14.95

Electrical Accessories



(9) 24-Hour/7-Day Timer. Ideal for security.
61-9707 . . . . . 27.95

(10) Cord Extension Socket. 3 flat pin type.
61-9512 . . . . . 4.49

(11) Double Adapter. Double the usage of any single mains plug. **61-9506 . . . . . 3.99**

(12) Double Backed Plug. Piggyback mount.
61-9508 . . . . . 3.99

(13) Safety Protector Plugs. For child safety.
61-9513 . . . . . Pkg. of 6/3.49

(14) Jug Element. 61-9517 . . . . . 1.99

(15) Replacement Mains Plug. Easy screw terminal. **61-9502 . . . . . 2.49**

(16) Side Entry Plug. 61-9516 . . . . . 2.49

(17) Universal Starter. 61-9601 . . . . . Pkg. of 2/99c

(18) AC Power Cord. 3 core flex 7.5 amp rated.
278-9001 . . . . . 99c/m

Tandy Torches

14⁹⁵ Each

NEW FOR 89

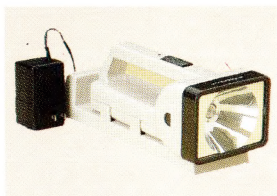
NEW FOR 89

Metal Focus Light. Adjustable beam and can be used as 360° area light. Requires 2 "AA" batteries. **61-9104 . . 14.95**

Halogen Bulb Light. 300% brighter than ordinary torches. Durable & water resistant. Req. 2 "D" batt. **61-9105 . . 14.95**

Rechargeable Light

39⁹⁵



- **Automatically Lights When AC Power Fails**

The ideal emergency light and cordless lantern. Built-in nickel-cadmium batteries. With wall bracket and 240V AC charger.
61-2740 . . . . . 39.95

Fluorescent Lights

- **Built-In Spotlight**

19⁹⁵

12⁹⁵

Two-In-One Mini Light. With fluorescent and beam light. Requires 3 "C" batteries.
61-2734 . . . . . 12.95

Three-In-One Light. Plugs into vehicle lighter with the included 3.7cm cord. Requires 4 "D" batteries.
61-2735 . . . . . 19.95

Excellent Value Flashlights!

(19) Searchlight. Throws bright, concentrated beam. Requires 3 "D" batteries. **61-2635 . . . . . 7.95**

(20) Metal Penlite. Pocket clip. Requires 2 "AA" batteries. **61-2626 . . . . . 3.99**

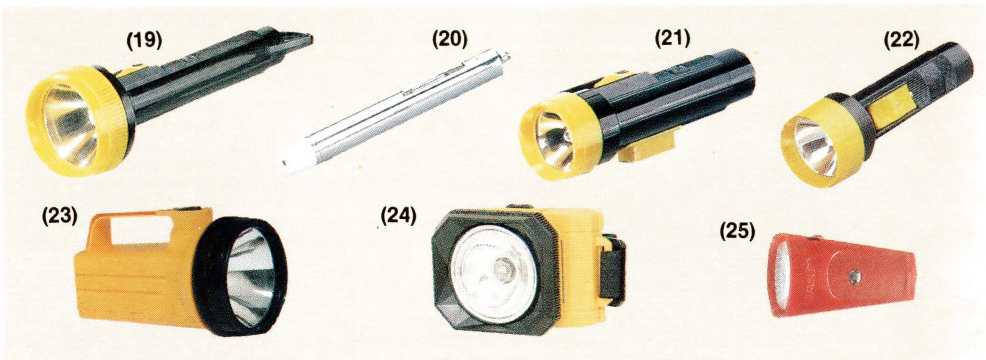
(21) Magnet Light. Holds securely to metal. Requires 2 "D" batteries. **61-2640 . . . . . 6.95**

(22) Heavy-Duty "C" Cell. Requires 2 "C" batteries.
61-2641 . . . . . 4.49

(23) Six Volt Floating Lantern. Ideal to keep in the car or boat. **61-2520 . . . . . 8.95**

(24) Hands Free Headlight. Pivots up or down to illuminate specific work areas. **61-2510 . . . . . 6.95**

(25) Hand Sized Torch. Requires 2 "AA" batteries.
68-9603 . . . . . 1.99

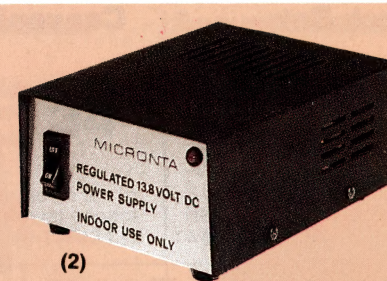


Use Dependable ENERCELL® Alkaline Batteries

AC/DC ADAPTERS AND POWER SUPPLIES

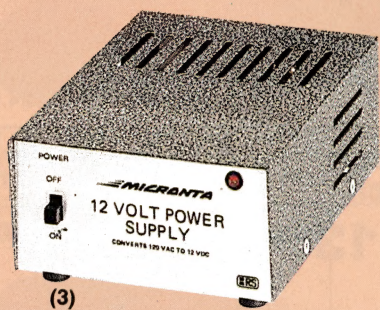
(1)
149.95

■ 6 Amp, Ideal for Heavy Current Equipment



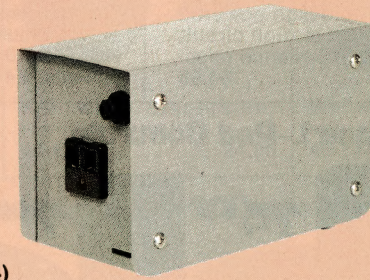
(2)
89.95

■ 2.5 Amp Regulated, Perfect for the CB Operator



(3)
69.95

■ 2 Amp, Great for Model Railway or Hobbyist



(4)
149.95

■ Converts 240VAC to 115 VAC

Heavy-Duty 6 Amp, 12VDC Power Supply

(1) For high-power car stereos or even complete vehicle component systems with separate tape decks, radios, equalizers, etc. Ideal for powering Ham rigs or most 12VDC items or combination of items drawing up to 6 amps. All-metal cabinet with rubber feet. AC operation. **22-9525** **149.95**

Regulated CB Power Supply

(2) Ideal for powering Mobile CB's (including SSB). 13.8VDC regulated output at 2.5 amps continuous 4 amps surge. **22-9500** **89.95**

Low-Cost 12VDC Power Supply

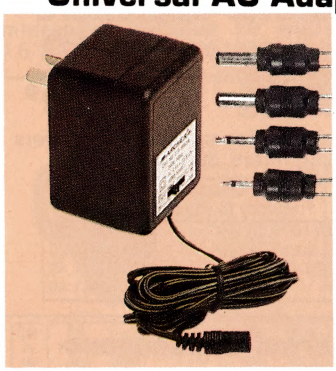
(3) Ideal for powering 12VDC auto-sound equipment. LED "on" indicator. Output of 2 amps with a 4-amp surge rating. AC operation. 50 Hz. **22-9527** **69.95**

240-115V AC Transformer

(4) Powers 115V AC equipment up to 125 watts. 3 Pin "American" socket output. 50Hz. 1 AMP output. **22-9515** **149.95**

AC and DC Adapters for Portable Equipment

Universal AC Adapters



■ 300 mA, 500mA and 1A Adapters Include 4 Interchangeable Multiplugs

300 mA Universal AC Adapter. Input: 240V 50 Hz. Output: 3, 4.5, 6, 7.5, 9, 12VDC selectable. **273-9663** **19.95**

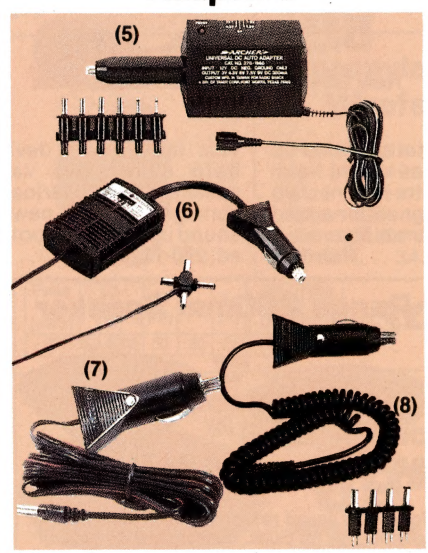
500 mA Universal AC Adapter. As above but with 500 mA capacity. **273-9665** **27.95**

1A Universal AC Adapter. Input: 240V 50 Hz. Output: 6, 7.5, 9, 12VDC selectable. **273-9651** **37.95**

Pack of 6 spare plugs. Suit above adapters. Miniplugs: 2.5, 3.5mm. DC plugs: 1.0mm, 1.35mm. 2.1mm, 2.5mm. **273-9502** **7.95**

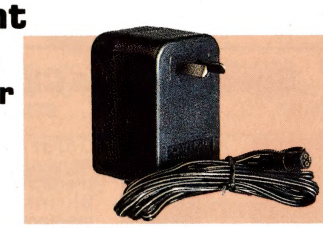
DC Adapters. Saves batteries. For selected battery operated products. **14-844** **12.95**
Long Nose. 14-9844 ..... **12.95**

Universal DC Voltage Adapters



(5) Universal DC Adapter. With six adapta-plugs. Reduces 12V to 3/4.5/6/7.5/9 volts. **270-1560** **17.95**
(6) Hi-Power 6-9-12V DC Adapter. Fused with four plug sizes. **270-1562** **27.95**
(7) Standard Power Cord. 2.4m Barrel-type connector has positive tip, negative sleeve. Fused. **270-1533** . **8.95**
(8) Universal. Includes lighter plug. 1.4cm coiled cord and three adapter plugs for easy connection to most 12V DC portable CBs, stereos, recorders and radar detectors. Fuse protected. **270-1528** **18.95**

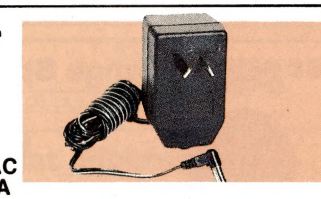
Regulated AC Adapter



32.95

Hum free circuit design for personal portable stereos, pocket TVs etc. Input; 240V AC 50Hz. Output; 3, 4.5, 6V DC. 250mA with 4 coaxial "barrel" type multiplugs for almost any application. **273-9550** **32.95**

AC Power Adapter

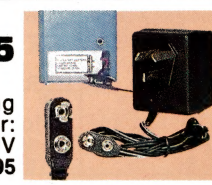


14.95

■ Converts 240V AC to 6V DC 150 mA

Run 6 volt, DC powered devices from any 240VAC outlet! Ideal for many Realistic and foreign products. 1.8m cord features a 90° 5mm O.D. x 2.1mm I.D. coaxial plug. **273-1454** **14.95**

9V Battery Eliminator

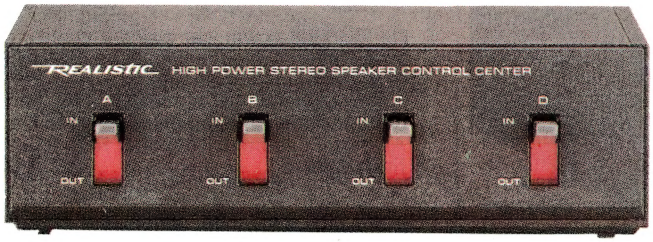


12.95

Save money by eliminating costly batteries. Connector: Snap-type as used on 9V batteries. **270-9152** **12.95**

VALUE ON SPEAKERS AND ACCESSORIES

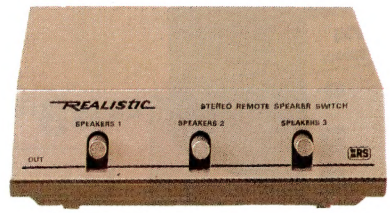
High-Power Stereo Switch Box



54.95 NEW FOR 89 ■ **Controls Up to 4 Pair of Speakers**

Our high-power stereo switch box is designed to handle high-powered amplifiers/receivers. Includes a built-in impedance-protection circuit that helps stop your speakers from damage due to impedance mismatch. Up to 100 watts peak. **40-136** **54.95**

Convenient Stereo Speaker Switch Box



24.95

The easy way to control three pairs of speakers from one central location. Select simultaneous or individual use of three pairs of stereo speakers. Rated at 10 watts rms. Modern silver finish matches many stereo components. 5.4 x 15 x 8cm. **40-9500** **24.95**

Stereo L-Pad Controls

24.95

75-Watt Peak

Control the volume of two 8-ohm speakers from any convenient location. Easy to install in standard electrical wall-box.
75-Watt. 40-978 . . . . . **24.95**

Mono L-Pad Controls

14.95

7.95

Control the volume of one 8-ohm monophonic speaker. Easy to mount in wall or speaker enclosure, even in a different room from your audio system.
75-Watt. 40-977 . . . . . **14.95**
25-Watt. 40-980 . . . . . **7.95**

Selector Switch

13.95

Controls two pairs of stereo speakers. Metal case with pre-drilled tabs. Includes mounting hardware.
40-130 . . . . . **13.95**

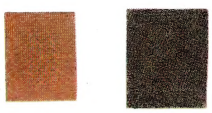
Speaker Wall Jacks

5.95

Fit in Standard Wall Box

Hook up stereo speakers anywhere. Includes two phono plugs and mounting hardware. Fits in standard wall box. **40-981** **5.95**

Speaker Grille Cloth

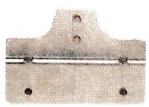


(1) (2)

Color-fast. Acoustically transparent. Shrink/fade resistant cloth.

Fig	Description	Size cm	Cat.No.	Each
1	Deluxe Brown	91 x 61	40-1936	17.95
2	Deluxe Black	91 x 61	40-1935	17.95

Wall Brackets



5.95 Pair

New Design

Each wall bracket supports up to 23kg. Includes all the hardware needed to mount two speakers. Designed for added strength and durability.
40-150 . . . . . **Pair 5.95**

Fuse Holder

1.99

This inexpensive device will help save your valuable speakers from overloading or damage from the new digital sound inputs. Fuse not included. **270-1210** **1.99**

Crossover Capacitors

Low As 99¢

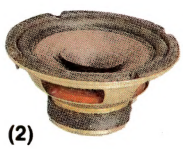
Electrolytics for speaker crossovers and audio filters. 50 WVDC.

µF	Approx. Crossover Frequency (8 ohms)	Cat. No.	Each
1.0	10 kHz	272-996	.99
2.2	8 kHz	272-997	.99
4.7	4 kHz	272-998	1.49
10.0	2 kHz	272-999	1.49

Wide-Range Speakers

(1)

Low As **3.99**



(2)

Ideal for all kinds of new or replacement use.

Fig.	Size	Power Cap. (watts)	Eff. Range (Hz)	Magnet Weight In g.	Cat. No.	Each
1	76mm	2.0	-	11	40-248	4.99
	57mm	0.5	-	11	40-246	3.99
	51mm	0.5	-	11	40-245	3.99
2	w/Whizzer	20	55-12K	272	40-1285	24.95
	152	5	90-12K	78	40-1242	13.95

Full-Range 200mm Speaker

(3) Low As **14.95**

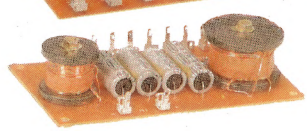
Low As (4) **31.95**

Perfect for quality sound reinforcement or background music systems. Use for clubs, auditoriums, schools, offices, recreation room, and other applications. 8 ohms.

Fig.	Cap. in Watts	Eff. Range (Hz)	F_0 (Hz)	SPL 1W/1M (dB)	Mag. Wt. In g.	Cat. No.	Each
3	10	75-25K	75	88	79	40-1271	14.95
—	10	90-20K	90	87	150	40-1272	17.95
4	30	57-16K	57	93	266	40-1286	34.95
—	35	55-16K	55	90	453	40-1341	31.95

Universal Crossovers

19.95 Two-Way



29.95 Three-Way

Two Way. Choice of three crossover points: 2000 Hz, 2500 Hz or 4000 Hz. 6dB/octave. 100 watt output. **40-1296** **19.95**
Three Way. 800/5000 Hz, 800/7000, 1600/5000 Hz, 1600/7000 Hz. 6dB/octave. 100 watt output. **40-1299** **29.95**

Prices Apply at All Tandy Stores and Participating Dealers

RANGE OF REPLACEMENT SPEAKERS

Flat Tweeter

NEW FOR 89

49.95

5.1cm flat diaphragm tweeter.
40-9102 . . . . . **49.95**

Ribbon Tweeter

Ultra-Wide 2.5-30 kHz Response **34.95**

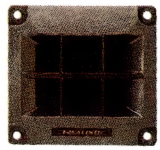
Delivers detailed highs to an incredible 30,000 Hz. Power capacity: 35 watts. 8 ohms. **40-1390 34.95**

Acoustic Lens Tweeter

34.95

State of the art design. Response 5-25 kHz. Handles 35 watts. SPL/; 95 dB. **40-1388 34.95**

Cellular Tweeter



NEW FOR 89

29.95

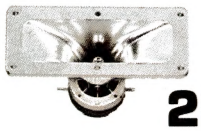
8.9cm cellular tweeter horn. 8 ohms. **40-1395** **29.95**

Dual Radial Tweeter

29.95

For extended response. Handles 70 watts.
40-1377 . . . . . **29.95**

Piezo Tweeter



29.95

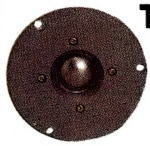
Horn tweeter handles 75 watts capacity.
40-1379 . . . . . **29.95**

Dome Tweeter

24.95

For wide dispersion. Handles 40 watts.
40-1276 . . . . . **24.95**

Poly Tron Tweeter



24.95

For detailed stereo image. Handles 30 watts.
40-1370 . . . . . **24.95**

Piezo Tweeter

12.95

For high output use. Handles 75 watts.
40-1383 . . . . . **12.95**

Wide Dispersion

39.95

Wide-dispersion soft-dome midrange. Handles 70 watts. 1.5-10 kHz. 8 ohms. **40-1281** . **39.95**

Cone Drivers

12.95

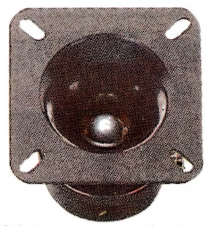
Extend high and mid-frequency response. Handles 50 watts. 8 ohms. **40-1270** **12.95**

100mm Midrange

19.95

Extend high and mid-frequency response. Power handling capacity 50 watts. 8 ohms.
40-1282 . . . . . **19.95**

Dynamic Tweeters



19.95

Wide, controlled dispersion. 8 ohms. 50 watt capacity. 6-16 kHz.
40-1278 . . . . . **19.95**

200mm Foam-Surround Woofer

Polypropylene cone. 8 ohms.
40-1021 . . . **49.95**

Cap in W	Eff. Range (Hz)	F_0 (Hz)	Q_{TS}	V_{as} (lt)	SPL 1W/1M (dB)	Mag. Wt. In g.
50	30-5000	30	.51	72	89	278

49.95

165mm Polypropylene Woofer

Perfect choice for bookshelf-size systems. Clean bass transients. 8 ohms.
40-1011 . . **34.95**

Power Cap (watts)	Eff. Range (Hz)	F_0 (Hz)	Q_{TS}	V_{as} (lt)	SPL 1W/1M (dB)	Mag. Wt. In g.
50	50-6000	50	.60	73	89	278

34.95

Long-Throw 100mm Woofer

For Home Or Car

Long-throw design for solid bass response. Color-coded terminals. 8 ohms.
40-1022 . . . **24.95**

Cap in W	Eff. Range (Hz)	F_0 (Hz)	Q_{TS}	V_{as} (lt)	SPL 1W/1M (dB)	Mag. Wt. In g.
10	55-5000	55	.35	6.5	84	222

24.95

250mm Foam-Surround Woofer

54.95

Long-throw design for solid "bass" in your system's sound. Coded terminals. 8 ohms.
40-1331 . . . . . **54.95**

Power Cap. (watts)	Eff. Range (Hz)	F_0 (Hz)	Q_{TS}	V_{AS} (lt)	SPL 1W/1M (dB)	Magnet Wt. In g.
50	40-4000	40	.93	122	91	250

300mm Woofer for Superb Bass Response

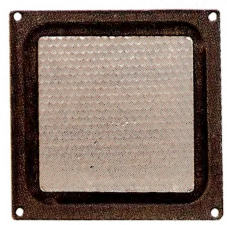
69.95

Moves Large Volumes of Air for Bass You Can Feel!

Light, rigid cone delivers exceptionally smooth low-frequency response. 8 ohms. **40-9507** **69.95**

Power Cap. (watts)	Eff. Range (Hz)	F_0 (Hz)	Q_{TS}	V_{AS} (lt)	SPL 1W/1M (dB)	Magnet Wt. In g.
90	30-4000	30	.60	240	91	370

Flat Woofer



NEW FOR 89

59.95

16.6cm flat diaphragm woofer. "Honeycomb" design is perfect for use with compact disc and digital music sources. **40-9101** **59.95**

BEST VALUE MICRONTA® MULTITESTERS

28-Range FET VOM

89.95

- Works Like a Solid-State VTVM
- Jumbo 12.7cm 3-Color Scale
- "Beep" Continuity Function

Incredible 10-megohm input sensitivity! Measures to 1000 volts DC in seven ranges, 1000 volts AC in five ranges, DC current to 10 amps in five ranges, resistance to 100 megohms in five ranges and decibels −20 to +62. Fuse protected. 18x14x7cm. Requires one 9V, one "C" battery. **22-220** **89.95**

43-Range Multitester

69.95

- Range Doubler
- "Beep" Continuity Function
- Low DC Ranges—125mV and 25µA

Sensitivity: 50,000 ohms per volt DC. Fuse and overload protected. Measures to 1000 volts DC in 12 ranges, 1000 volts AC in eight ranges, DC current to 10 amps in 10 ranges, resistance to 20 megohms in four ranges, decibels −20 to +62. 17x12.4x6cm. Requires one 9V, one "AA" battery. **22-214** **69.95**

Rugged 25-Range Foldup Multitester

54.95

- Mirrored 3-Color 10cm Meter with Shunt Protection When Shut
- Folds for Traveling

Fuse/surge-absorber protected. Sensitivity: 20,000 ohms per volt DC. Measures to 1200 volts DC in seven ranges, 1200 volts AC in five ranges, DC current to 300 mA in four ranges, resistance to two megohms in four ranges, and decibels −20 to +63 in five ranges. Accuracy ±3% DC, ±4% AC. Open, 18.4x11x3.2cm. Requires "AA" battery. **22-211** **54.95**

18-Range Multitester

34.95

Excellent Value!

Features 7.6cm meter, color-coded and mirrored scale. Sensitivity: 20,000 ohms per volt DC. Measures up to 1000 volts DC in 5 ranges, 1000 volts AC in 4 ranges, DC current to 250 mA in 2 ranges, resistance to 2 megohms in 3 ranges, and decibels −20 to +62 in 4 ranges. 13x8.9x3.7cm. Requires "AA" battery.
22-201 ..... **34.95**

Pocket Multitester

- Compact and Durable
- Just Right for Your Tool Kit or Car Glove Compartment

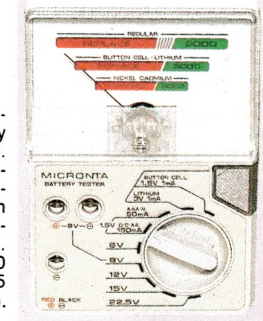
19.95

Incredibly easy to use! Fine for a beginner or as a second meter. Sensitivity: 2000 ohms/volt DC. Has 5cm meter, color-coded mirrored scale, "off" position for protection during transit. Measures to 1000 volts AC/DC in six ranges, DC current to 150 mA, resistance to 100,000 ohms. 8.9x5.7x3.2cm. Requires "AA" battery.
22-212 ..... **19.95**

Deluxe Battery Tester

19.95

Know the True Condition of Your Batteries



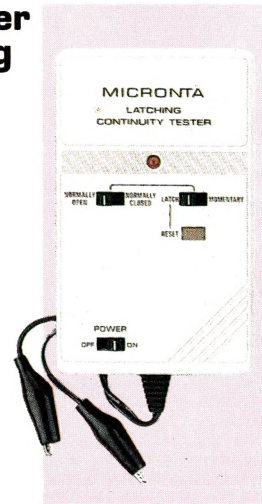
Accurately measures almost any type of battery under load conditions. For carbon-zinc, alkaline, mercury, silver oxide, lithium and even nickel-cadmium rechargeable batteries. Ranges: 1.5 volts (1-150 mA), 3, 6, 9, 12, 15, 22.5 volts. 13.3x8.9x4.4cm. *For battery tests only.*
22-032 ..... **19.95**

Latching Continuity Tester for Fast Troubleshooting

NEW FOR 89

29.95

- Latch Mode Spots Brief Faults You Would Miss With Ordinary Testers
- Ideal for Testing Security System Wiring, Switches and Sensors



Efficient *dual-mode* continuity testing! Momentary mode operates like a standard continuity tester, allowing you to check for normally open or normally closed conditions. Latching mode continues to indicate that a fault has occurred until you press the reset button. The latching mode spots both opens and shorts — a Tandy exclusive. Features LED and buzzer indicators, fast one millisecond response time. Has 91cm test leads with alligator clips. *Not for use in live circuits.* 11.4x7x2.7cm. Requires 9V battery. **22-110** **29.95**

Clamp-On AC Ammeter and Voltmeter

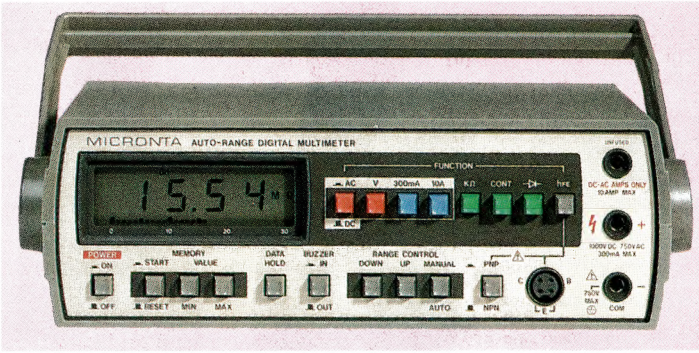
64.95

- Measures AC Current Without Direct Connection to Circuit
- Measures Up to 600 Volts AC With Included Test Leads

Measures AC current without direct connection to circuit, and measures AC voltage with included test leads. Clamp jaws permit easy insertion into tight spaces. Lock-switch freezes pointer so you can remove meter for easy reading. Plug-in dual-function inductive pickup/multiplier tests devices with an AC cord. Provides ×10 readings for low-current tests. Measures to 300 amperes AC in five ranges, to 600 volts AC in two ranges. 10.2x5.1x1cm. **22-161** **64.95**

MULTITESTERS WITH DIGITAL DISPLAY

Benchtop Digital LCD Multimeter

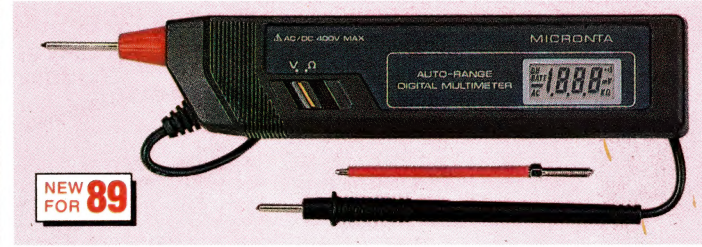


179.95

- Manual or Autoranging
- Minimum/Maximum Hold

Our best! The 31-segment analog bar graph display makes input peaks and trends easier to follow. Transistor checker measures h_{FE} (gain); diode-check for semiconductor junctions. Memory function and buzzer continuity checker. Measures to 1000 volts DC, 750 volts AC. AC/DC current to 10 amps. Resistance to 30 megohms. Input impedance: 10 megohms on DCV/ACV ranges, more than 100 megohms on DC 300 mV range. 6.8 x 20.3 x 12.1cm. Fuse and overload protected. Requires 4 "C" batteries. **22-195** **179.95**

Probe-Style Autoranging Multimeter



Carrying Case Included

59.95

- Data Hold Function Freezes Display
- Continuity Buzzer
- Fully Automatic Range and Polarity
- Low Battery Indicator

High accuracy and easy operation in a tester designed to go with you. Small size makes it perfect for testing in tight spaces. Data hold lets you freeze the display and remove tester from circuit for more convenient reading. Measures up to 400 volts AC/DC and resistance in k-ohms. Continuity buzzer sounds when circuit resistance is approximately 300 ohms or less. Overload protected. 3x16.2x1.9cm. Includes two button batteries (Radio Shack #23-115) and carrying case. **22-165** **59.95**

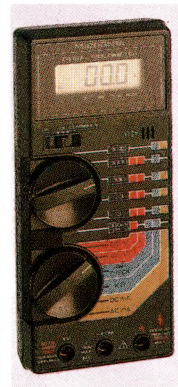
Foldup Autoranging VOM

Detented Hinge for Best Viewing Angle

129.95

Has auto-shutoff, autoranging, diode check mode and "beep" continuity checker. Measures to 1000 volts DC, 500 volts AC, AC/DC current to 10 amps. Resistance to 2 megohms. 27.6 x 14.3 x 3.8cm, open. It's fused and overload protected. Requires 2 "AA" batteries. **22-193** **129.95**

23-Range Digital VOM



99.95

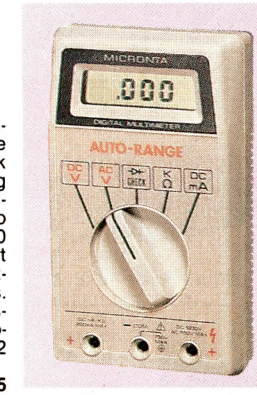
- Full Autopolarity
- Diode Check Function
- "Beep" Continuity Test

Input impedance: 10 megohms for DCV/ACV (more than 100 megohms on 300 mV DC)! Measures to 1000 volts DC in five ranges, 750 volts AC in four ranges, DC and AC current to 10 amps in four ranges, each, and resistance to 30 megohms in six ranges. Overload and surge-protected. 17x7.8x3.2cm. Requires 4 "AA" batteries. **22-185** **99.95**

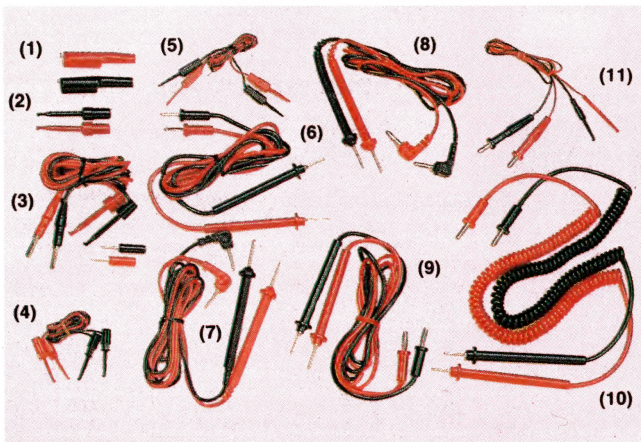
Autoranging Digital VOM

64.95

Just select the function and it does the rest. Diode check mode for testing semiconductor junctions. Measures to 1000 volts DC, 500 volts AC, DC current to 200 mA. Resistance to 2 megohms. 12.4x7.1x3.2cm. Fused and overload protected. Requires 2 "AA" batteries. **22-188** **64.95**



Everything in Test Leads and Clips



(1) Insulated Alligator Clips. Slip over probe tips. **270-354** **Pair/3.49**

(2) Mini Hook Test Clip Adapter. **270-334** **Pair/3.99**

(3) Mini Clip Test Leads. 51cm long. Mini clip to banana plug. **278-1160** . . **Pair/6.49**

(4) Micro-Test Clip Jumpers. **278-017** **Pair/5.95**

(5) Mini-Clip Jumper. 51cm long. Mini-clip at each end. **278-016** **Pair/5.95**

(6) Pin-Tip Test Leads. 91cm long. probe to pin-tip plug. **278-705** . **Pair 3.99**

(7) Right-Angle Pin-Tip Test Leads. 91cm long. 12.1cm probe at one end, 90° pin-tip plug at the other. **278-712** . . . **Pair/4.49**

(8) Right-Angle Banana Test Leads. 91cm long. Probe at one end, 90° banana plug at other. **278-713** **Pair/5.95**

(9) Banana-Plug Test Leads. 91cm long. 11.4cm probe to banana plug. **278-704** **Pair/4.99**

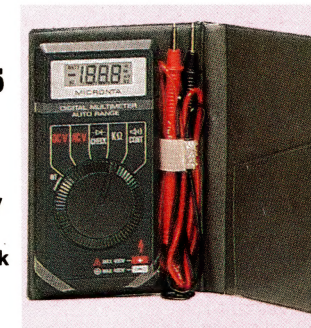
(10) Coiled 1.8m Leads. Probe at one end, banana plug at the other. **278-750** **Pair/7.95**

(11) NEW! Micro-Hook 47cm Test Leads. Banana plug to spring-action "grabber" hook. **278-018** **Pair/5.95**

Pocket Autoranging DVM

44.95

- Autopolarity
- Diode-Check Function



The mighty midget! Big-meter features in a pocket size. "Beep" continuity, pushbutton range selection, low-battery indicator. Measures to 400 volts AC/DC, resistance to 2 megohms. 10.8 x 5.4 x 0.8cm. With 2 RS-357A batteries, miniprobes, folding case. **22-171** **44.95**

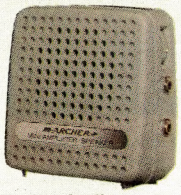
All Micronta Multitesters and Multimeters Include Color-Coded Test Leads and Easy-to-Understand Owners' Manuals

JOYSTICKS, RELAYS, ANTENNAS & SWITCHES

Prewired Modules

Silent Alarm Kit

(1)



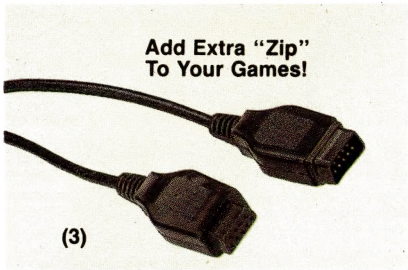
(2)

Audio Amp/Speaker

(1) Silent Alarm Kit. Looks line a real alarm. Easily fitted to any 12VDC negative ground system. Mount in or under dash. Requires 15mm mounting hole. Light flashes when ignition is turned off. With warning stickers. **277-9501** **14.95**
Replacement Lamp. 272-9501 ..... **4.99**

(2) Audio Amplifier with Built-In Speaker. Ideal as a test-bench amp or wherever you need a compact audio amplifier. Has on/off volume control, 1/8" phone jacks for input and an external speaker or earphone. High-gain IC design, 200-mW output. 8.6x8.1x4.4cm. Requires 9V battery. **277-1008** .. **24.95**

Computer Joysticks

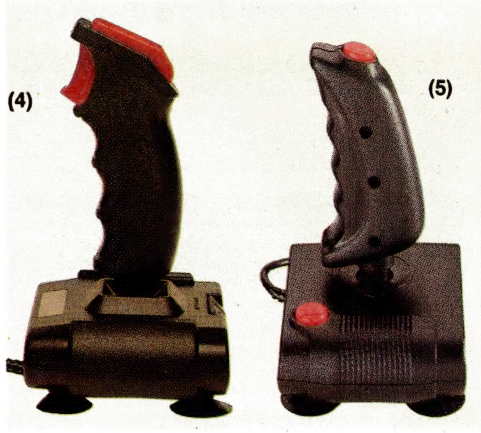


(3)

(3) 3m Joystick Extension Cord. 9-pin D-sub male connector to 9-pin D-sub female. **270-1705** **6.95**

(4) Deluxe Competition Joystick. Comfortable hand grip features dual fire buttons: shoot with either your thumb or "trigger" finger. With micro-switch, auto-fire capability and 9 Pin connector. **270-1703** **29.95**

(5) "Jet Fighter". Features large contoured handle and two firing buttons—one on handle, one on base. 8-direction movement. 1.2m cable with 9-pin connector. **270-1701** **19.95**

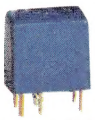


(4) (5)

Atari® is TM of Atari, Inc. VIC-20 and Commodore 64 are TMs of Commodore Int'l. Sears Video Arcade is TM of Sears Roebuck & Co.

High-Quality Relays for Your Projects. Check Our Big Selection

Micro-Mini SPDT, 5 or 12 VDC Coil

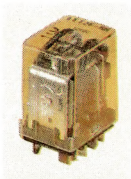


ACTUAL SIZE

3.49

Just 9 x 10 x 6mm. Contacts: 1 amp at 125 VAC. 5 VDC, 90 milliamp coil. **275-240** . . . **3.49**
With 12 VDC Coil.
275-241 ..... **3.49**

Heavy-Duty DPDT Relays 9.95



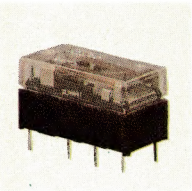
Contacts: 10 amps at 125 VAC. Plug-in or solder. 41 x 25 x 19mm. 12 VDC, 150 ohm coil.
275-218 ..... **9.95**
10-Amp Socket. 275-220 . . . **2.99**

Mini SPDT with 3-Amp Contacts

4.99

Contacts: 3 amps at 125 VAC. 14 x 20 x 16mm. 12 VDC, 400 ohm coil. **275-247** **4.99**

DIP DPDT



6.95

Fit 16-pin DIP socket or mount on PC boards. Contacts: 0.3 amp at 125 VAC. 11 x 20 x 10mm. 12 VDC, 280-ohm, 43 mA coil.
275-213 ..... **6.95**

Mini SPDT Relay With Leads

4.49

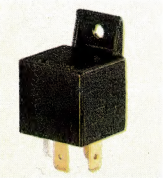
6-9 VDC, 500-Ohm Coil. Typical drain 12 mA — ideal for battery-powered circuits. Contacts: 1 amp at 125 VAC. 25 x 27 x 19mm. **275-004** **4.49**

Compact SPST Reed Relays

Low As **2.99**

Approximately 25 x 8mm. Pins for PC board mounting. Contacts rated 1 amp at 125 VAC. Low-current coils.
5 VDC Coil. 275-232 ..... **3.49**
12 VDC Coil. 275-233 ..... **2.99**

Automotive Lighting Relay

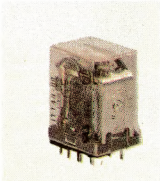


6.95

Compact, easy to mount. SPST contacts rated 30 amps at 12 VDC. 12 VDC coil.
275-226 ..... **6.95**

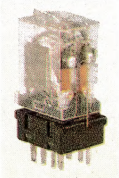
Mini 4PDT Relays

8.95



Switches up to four circuits! PC mountable. Contacts: 3 amps at 125V AC. 35 x 29 x 21mm. 160 Ohm coil. **275-214** **8.95**
Socket. 275-221 ..... **2.99**

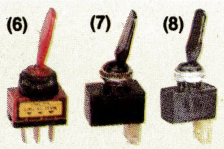
Mini DPDT, 12 VDC Coil



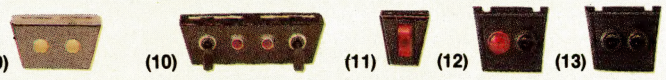
7.95 Socket Included

Contacts: 3 amps at 125 VAC. Coil: 75 mA, 150 ohms. Transparent case, 32 x 25 x 19mm. Chassis or PC-mount socket has clips for relay.
275-206 ..... **7.95**

Automotive Switches



(6) (7) (8)



(9) (10) (11) (12) (13)

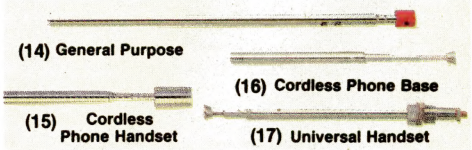
For 12 VDC Use Only

(6) Lighted SPST. Handle lights when on. 3 amps. 7/16" mtg. hole. **275-706** **3.99**
(7) Lever Switches. 20 amps ½ 7.5 x 2.5 x 1.3cm ½ 7/16" mtg. hole. **SPST. 275-708** **3.99**
DPDT Center-Off. 275-710 ..... **4.49**
DPDT Momentary. Spring return to center off position. **275-709** **5.49**
(8) SPST. 5 amps. **275-701** **2.99**

With Mounting Hardware

(9) Switch Bracket. Underdash mounting of two switches with 11mm dia. bushings. **275-705** **1.49**
(10) Dual Flip Switch/Light Panel. Rated 16 amps at 12 VDC. Two 12V long-life lamps. **275-707** **8.95**
(11) Lighted Rocker Switch Panel. Rated 20 amps at 12 VDC. Quick-disconnect terminals. **275-704** **6.95**
(12) Flip Switch and Red Light Panel. 16-amp switch with 12 VDC long-life lamp. **275-703** **5.95**
(13) Dual Switch Panel. Two mounted flip switches rated 16 amps at 12 VDC. **275-702** **5.95**

Replacement Antennas



(14) General Purpose

(16) Cordless Phone Base

(15) Cordless Phone Handset

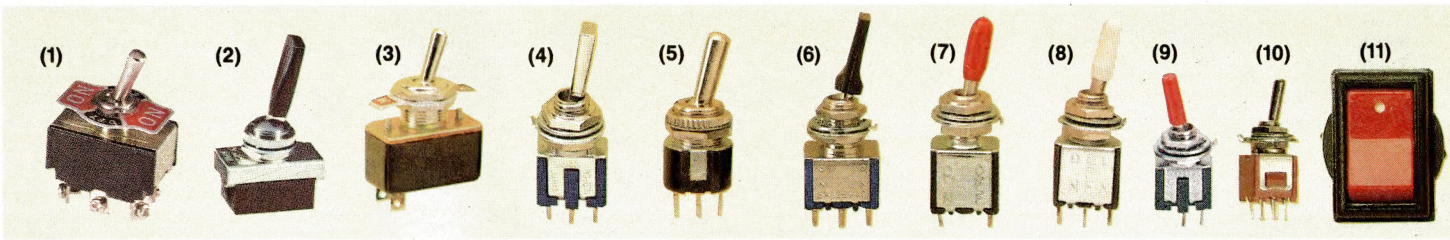
(17) Universal Handset

Fig.	Sections	Extends to	Cat. No.	Each
14	5	77cm	270-1401	5.95
14	4	87cm	270-1402	6.95
14	3	100cm	270-1403	7.95
14	6	183cm	270-1408	8.95
15	5	77cm	270-1405	3.99
16	5	39cm	270-1406	4.99
17	5	33cm	270-1407	4.99

Large-Quantity Discounts Available — See Page 72

PROJECT SWITCHES AND REPLACEMENT

Panel-Mount Switches—Complete With Hardware and Pin Diagram



(1) Heavy-Duty DPDT Centre-Off. Rated 10 amps at 125V AC. Features screwdriver terminals for easy hookup and includes on-off-on label plate. Body size: 19x35x35mm. Mounts in 11mm diameter hole.
275-1533 ..... **3.99**

(2) Heavy-Duty AC. Rated 6 amps at 250V AC. Features 10x25mm-long lever and solder lug terminals. Body size: 25x16x16mm. Mounts in 11mm diameter hole. **SPST. 275-651** **4.49**
SPDT. 275-654 ..... **4.99**
DPDT. 275-652 ..... **5.49**
DPDT Centre-Off. 275-653 ..... **5.49**

(3) Standard Toggles. Rated 3 amps at 125V AC. With on/off label plates. Body: 38x14x25mm. Mounts in 11mm hole. **SPST. 275-602** **2.49**
DPDT. 275-666 ..... **2.99**
Set. 1 DPDT, 2 SPST. **275-322** .. **3/5.95**

(4) Flatted Lever Switches. 6 amps at 125V AC. Body: 10x11x6mm. Requires 6mm mtg. hole. **SPDT. 275-635** ... **5.95**
DPDT. 275-636 ..... **6.95**
DPDT Momentary. 275-637 ..... **6.95**

(5) SPDT Mini-Toggle. 5 amps at 125V AC. 16x10mm. Requires 11mm mtg. hole. **275-603** **2.99**

(6) Mini Toggles. 6 amps at 125V AC. Body: 35x13x13mm. Mtg. hole: 6mm.
SPDT. 275-662 ..... **4.99**
SPDT. 275-663 ..... **5.95**

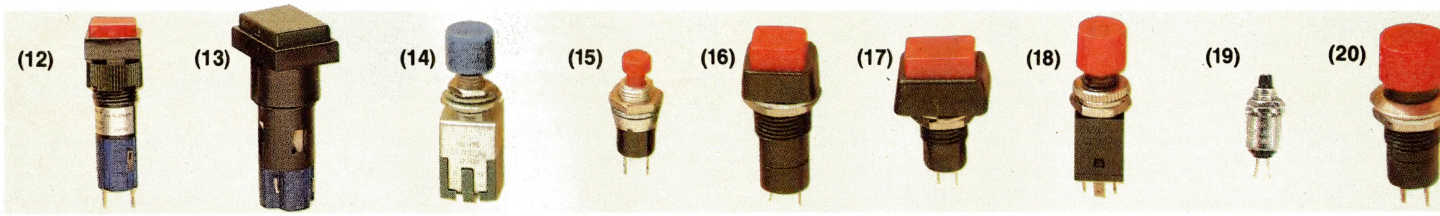
(7) Submini Toggles. 10 amps at 125V AC. Each includes four coloured handle covers. 13x11x13mm. 6mm mtg. hole. **SPST. 275-324** **3.99**
SPDT. 275-326 ..... **4.49**
SPDT Centre-Off. 275-325 ..... **4.99**
DPDT. 275-1546 ..... **5.95**
DPDT Centre-Off. 275-1545 ..... **4.99**

(8) Micromini Toggles. Rated 3 amps at 125V AC. Body size: 6x8x5mm.
SPST. 275-624 ..... **3.49**
SPDT. 275-625 ..... **3.99**
DPDT. 275-626 ..... **4.49**

(9) Submini Toggles. 3 amps at 125V AC. Body: 10x6x10mm. 6mm mtg. hole. **SPST. 275-612** **3.49**
SPDT. 275-613 ..... **3.99**
DPDT. 275-614 ..... **4.49**
DPDT Centre-Off. 275-620 ..... **4.99**

(10) Submini SPST PC-Mount Toggle. 0.3 amp at 125V AC. Body: 10x10x 6mm. **275-645** **3.49**

(11) Rocker Switches. Rated 6 amps at 125V AC. Body size: 30x19x35mm. Mount in 19mm hole.
SPST. 275-690 ..... **3.99**
DPDT. 275-691 ..... **4.99**



Push Button Switches

(12) 120V AC SPDT Push-on/Push-Off. Rated 3 amps at 120V AC. Lamp requires 12 volts, AC or DC. Body size: 44 x 14 x 14mm. Mounts in 12mm diameter hole.
275-676 ..... **9.95**

(13) SPST Normally Open or Normally Closed. Rated 5 at 250V AC. Lamp requires 12 volts AC or DC. Mounts in 16mm diameter hole. **275-678** ... **11.95**

Replacement 12-Volt Bulb. For Figs. 12, 13 and 14. **272-1154** **1.99**

(14) Mini SPDT Momentary. 3 amps at 125V AC. 6mm mtg. hole.
275-1549 ..... **4.99**

(15) Mini SPST Momentary. 0.5 amp at 125V AC. 10mm button. 6mm mtg. hole.
Norm. Open. 275-1547 .. **Pkg. of 5/4.99**
Norm. Closed. 275-1548 **Pkg. of 5/5.95**

(16) SPST Push-On/off. 3 amps at 250V AC. 12mm mtg. hole. **275-617** **2.99**
Momentary Version of Fig. 19. Normally open. **275-618** **2.49**

(17) SPST "Soft-Feel" Push-On/Off. 3A at 125V AC. 10mm mtg. hole.
275-1565 ..... **2.99**

(18) Mini SPDT Push-On/off. 3 amps at 125V AC. 8mm mtg. hole.
275-1555 ..... **3.49**

(19) Submini SPST Momentary. Rated 0.5 amp at 125V AC. Normally open. 38 x 6mm includes one red, one black. 10mm mtg. hole. **275-1571** **Set of 2/ 3.49**
Momentary Version of Fig. 20. Normally open. **275-1566** **2.99**

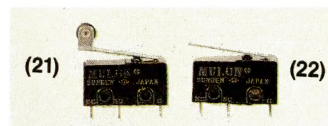
(20) Standard SPST Push-On/Off. 3A at 250V AC. 12mm mtg. hole.
275-011 ..... **2.49**
Momentary Version. Normally open. One black, one red.
275-609 ..... **Set of 2/3.99**

Desk Lamp Switches

Low As **2.49**

SPST. 240 VAC luminous stem P/B. **275-9601** **2.49**
DPDT. White stem P/B.
275-9602 ..... **3.49**

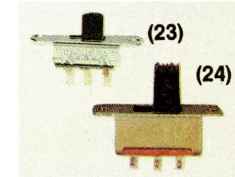
Lever Types



(21) SPDT With 19mm Roller Lever. Operating force: 5g. 5 amps at 250V AC. 19 x 6 x 10mm. **275-017** .. **2.99**

(22) SPDT With 19mm Lever. Operating force: 45g 5 amps at 250V AC. **275-016** **2.99**

Slide Switches



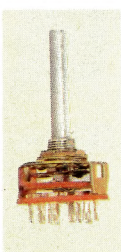
(23) Heavy-Duty. Rated 3 amps at 125 VAC.
SPST. 275-401 ..... **2/2.49**
DPDT. 275-403 ..... **2/2.99**

(24) Submini. Rated 0.3 amp at 125 VAC.
SPST. 275-406 ..... **2/1.49**
DPDT. 275-407 ..... **2/1.99**

Kit. Rated 0.5 amp at 125 VAC. Includes one each: SPDT, DPST, DPDT and three SPST. **275-327, Set of 6/3.99**

Rotary

2.99

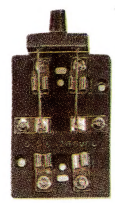


- **6mm -Dia. Shaft**
- **0.3 A at 125 VAC**

2-Pole, 6-Position. Single deck, non-shorting type.
275-1386 ..... **2.99**

Knife Switch

2.49



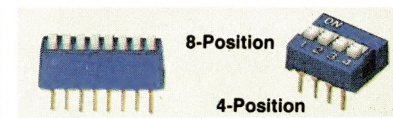
Screwdriver Terminals

DPDT. Ideal for projects, antenna switching, model railroads. Rated 0.5 amp at 250 VAC. 4.1 x 6 x 1.9cm.
275-1537 ... **2.49**

Mercury Switch

Useful in "tilt" or motion detector alarms, hobby and science projects. Rated 5 amps at 125 VAC. Style may vary.
275-027 ..... **2.99**

SPST DIP Switches



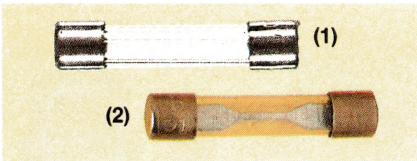
Digital/low-current use. Socket or PC mount.

Positions	Fits Socket	Cat. No.	Each
8	16-pin DIP	275-1301	2.99
4	8-pin DIP	275-1304	2.99

Large-Quantity Discounts Available — See Page 72

PLAY IT SAFE! ARCHER® FUSES & HOLDERS

Automotive Fuses



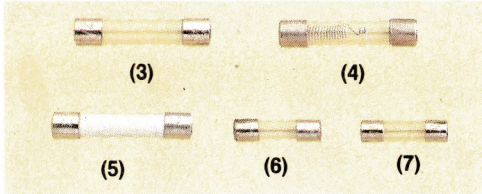
Fast-Acting, 32 x 6mm 3AG

Fig.	Amps	Cat. No.	Pkg. of 2	Price
1	10	Glass	270-1279	1.49
1	15	"	270-1280	1.49
1	8	"	270-9707	1.49
1	10	"	270-9708	1.49
1	15	"	270-9709	1.49
2	20	SFE	270-1268	1.99

Auto-Fuse Kits

Glass Fuse Kit. Two SFE-20. One each: AGC 3, 10, 15, 25, 30; SFE-20 7½, 9, 14. **270-1262** ..... **Set of 10/3.99**

"Blade" Fuse Kit. Box with one each: 5, 7.5, 10, 15, 20 amps. Color coded. **270-1201** ..... **Set of 5/3.99**



(3) Fast Acting, 32x6mm, 3AG. ..... **Pkg. of 3/1.49**

Amps	Cat. No.
0.5	270-1271
0.75	270-1272
1.0	270-1273
1.5	270-1274

Amps	Cat. No.
2	270-1275
3	270-1276
5	270-1278
7.5	270-9706

(4) Slow Blow, 32x6mm, 3AG. ..... **Pkg. of 2/2.49**

Amps	Cat. No.
0.5	270-1282
1	270-1283
2	270-1285

Amps	Cat. No.
3	270-1286
5	270-1287

Fuses for TVs, VCRs, Hi-Fi, CBs, Appliances and Testers

(5) Ceramic Fuses. For microwaves. .... **Pkg. of 2/2.99**

Amps	Cat. No.
10	270-1256

Amps	Cat. No.
15	270-1257

(6) Fast Acting, 5x20mm, M205. ..... **Pkg. of 2/1.49**

Amps	Cat. No.
0.1	270-9711
0.315	270-1249
0.5	270-1241
0.8	270-9712
1.0	270-1250

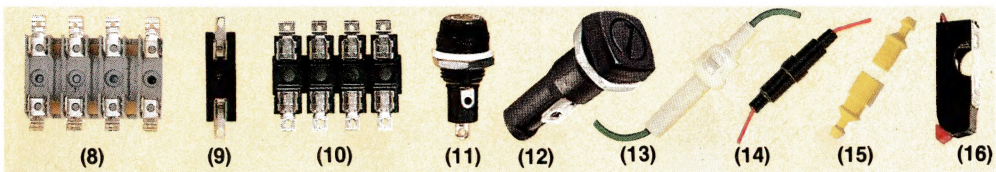
Amps	Cat. No.
1.6	270-9713
2	270-1244
3	270-1246
4	270-1247
5	270-1248

(7) Slow-Blow, 5x20mm, M205. ..... **Pkg. of 2/2.49**

Amps	Cat. No.
0.5	270-9702
1.0	270-9703
1.5	270-9714

Amps	Cat. No.
2	270-9715
3	270-9716
4	270-9717

Fuse Holders



(8) Four-Position Fuse Block. Sections can be separated. Ideal for vehicle use. Accepts quick-disconnect (auto-type) connectors, or can be soldered. 20 amps per circuit. **270-742** **5.49**

(9) Clip-In Chassis-Mount. Ideal for applications within enclosures. Solder terminals. **270-739** ..... **Pkg. of 2/1.49**

(10) Four Positioned Fuse Block. For 5x20mm fuses. Sections separate. **270-743** **5.49**

(11) Panel-Mount Holder. For 5x20mm fuses. Requires 13mm mounting hole. **270-362** **2.99**

(12) 240V Panel Mount Fuse Holder. Suit 3AG (32x6mm) fuses 6.35x31.75mm shielded type. **270-9602** **3.99**

(13) Inline. Spring assures positive contact. **270-1281** **1.99**

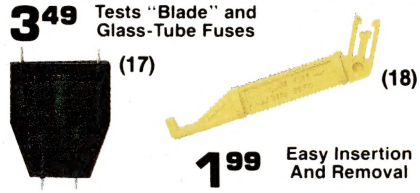
(14) Inline Holder. For 5x20mm fuses. **270-1238** **1.99**

(15) Solderless Fuse Holder. Accepts 6mm-dia. fuses. Rated 20 amps. **270-1211** **1.99**

(16) Speaker Fuse Holder. Helps prevent overload damage to speaker. Accepts 32x6mm fast-acting fuse. With formula to calculate proper fuse value up to 3A. **270-1210** **1.99**

Vehicle Fuse Tester & Tool

3.49 Tests "Blade" and Glass-Tube Fuses



1.99 Easy Insertion And Removal

(17) Vehicle Fuse Tester. Easy to use! Tests automotive fuses without removing them from holders. Indicator lamp lights if fuse is blown. For 12 VDC only. **22-1636 3.49**

(18) Universal Fuse Tool. Non-conductive tool lets you remove fuses from holders and install them without damage. Works great with plastic blade and glass fuses. A must for every car! **270-1199** **1.99**

Surge Absorber

3.99

Gas Discharge Tube. Fast-response transient protection. For use when repetitive surges are expected. For 240V AC circuits. **270-9811** **3.99**

Thermal Fuses

1.69

Breaks Circuit at	Cat. No.	Price
139°C	270-1320	1.99
226°C	270-1321	1.99

Used as a safety protector in many AC-operated coffee makers and other heating-type appliances. Rated 240V AC. 10 amps maximum.

Circuit Breaker

2.99 Easy to Install

Rated 2 amps, 120 VAC, within 120 seconds at 1.75 amps, 60 seconds at 2 amps. 30 x 13 x 37mm.
270-9310 ..... **2.99**

Fuse Tester

2.99

6-12 Volt Tester Light. Finds hot wires, indicates blown fuses quickly and easily. 14cm probe, 80cm detachable lead, ground clip.
272-203 ..... **2.99**

Molded Battery Holders

Low As

99¢

Series wiring. Have color-coded output leads except *, which have 9V-type snap.

Fig.	Cat. No.	Holds	Format	Price
19	270-406	2 "N"	2x1	.99
20	270-398	2 "AAA"	2x1	.99
21	270-401	1 "AA"	1	.99
22	270-382*	2 "AA"	2x1	.99
23	270-383*	4 "AA"	2x2x1	1.49
24	270-391	4 "AA"	4x1	1.49
25	270-387*	8 "AA"	4x2x1	1.99
26	270-407	8 "AA"	2x2x2	1.99

Fig.	Cat. No.	Holds	Format	Price
27	270-402	1 "C"	1	.99
28	270-385	2 "C"	2x1	1.49
29	270-390	4 "C"	2x2	1.99
30	270-403	1 "D"	1	.99
31	270-386	2 "D"	2x1	2.99
32	270-396	4 "D"	4x1	2.99
33	270-389	4 "D"	2x2	2.99

Batteries not included

(34) 9-Volt Battery Snaps. For projects, replacement or use with battery holders, above. **270-325** ..... **Pkg. of 5/1.99**

(35) 9-Volt Battery Holders. Tame "wild" rectangular batteries! Mount with screw or glue. **270-326** ..... **Pkg. of 2/99c**

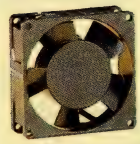
Large-Quantity Discounts Available — See Page 72

FANS, TRANSFORMERS & TEST CLIPS

Quiet Fans Help Preserve Equipment

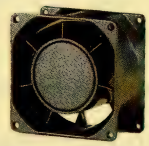
(1) 7.6cm Brushless DC Fan. Surprisingly light weight yet powerful. Produces 27 cubic feet per minute airflow. Ideal for cooling circuitry sensitive to hum or AC fields created by 240 VAC fans. Ball bearings for long life and low noise, −34 dB, max 8 x 8 x 3.8cm. Requires 7 to 13.8 VDC. **273-243** **29.95**

(2) 240V AC Fan. Very efficient. Just right for many microcomputers. Provides 32 CFM with only 38 dB sound pressure. 28cm leads. 11 watts. 8 x 8 x 3.8cm. **273-9542** **29.95**



(1) **29.95**

(2) **29.95**



Low-Voltage Motor

2.99

High Torque. 8300 RPM maximum, operates from 1.5 to 3 VDC. Approx. 3.8cm long (including shaft) by 2.4cm diameter. **273-223** **2.99**

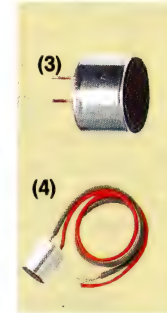
Hi-Fi Electret Mike Elements

Upgrade Old Mikes

(3) PC-Mount Omnidirectional. Operates 2-10V DC with very low current drain. 20 to 15 MHz + 4 dB. 6.6mm high. **270-090** **2.49**

Easy to Install

(4) Omnidirectional. Clean 30 to 15,000 Hz response. Operates 4-10 V DC. 11 x 10mm-dia. With 15cm leads. **270-092** **5.49**



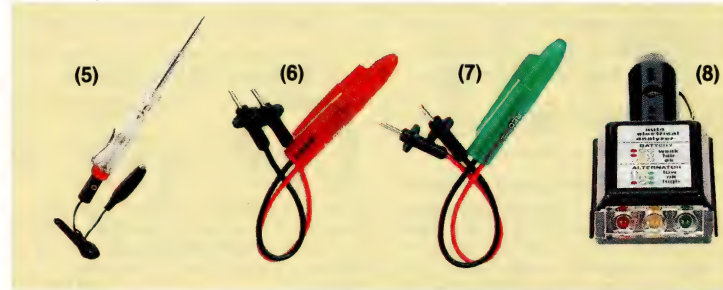
Home and Vehicle Wiring Testers

(5) 6-12 Volt Tester Light. Finds hot wires, indicates blown fuses quickly and easily. 14cm probe, 80cm detachable lead, ground clip. **272-203** **2.99**

(6) High-Voltage AC/DC Quick-Tester. 90 to 500 volts. For quick checks on house wiring, electrical and electronic devices. Neon bulb indicates live circuit. **272-201** **1.99**

(7) Low-Voltage AC/DC Quick-Tester. 5 to 50 volts. Ideal for checking automotive wiring and battery-operated devices. LED indicates live circuit and shows DC polarity. **272-202** **2.49**

(8) Electrical System Analyzer. Spot problems before you're stranded! LEDs show condition of battery, alternator, regulator. Plugs into lighter socket. **22-1635** .. **11.95**



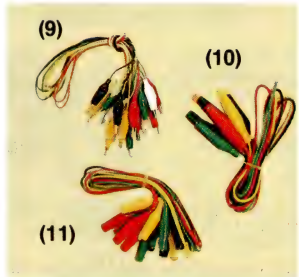
Color-Coded Test Cables

Secure Connections for Easy Testing

(9) Set of Ten Test Cables. 35.5cm long, insulated mini gator clip at each end. **278-1156** **6.95**

(10) Set of Four Test Cables. 76.2cm long, with insulated clip at each end. **278-001** **6.95**

(11) Set of Eight 61cm Cables. Four colors, insulated clip at each end. **278-1157** **6.95**



Non-Insulated Clips

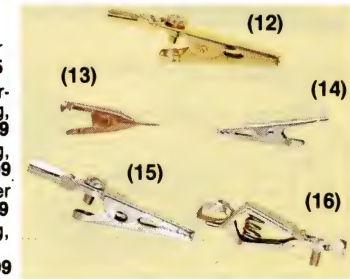
(12) Gold Plated Clips. Dress up your test leads. **270-350** ..... **Pkg. of 4/6.95**

(13) All-Purpose Micro Clips. Copper-plated, non-serrated ends. 2.9cm long, open to 0.6m. **270-373** ..... **Pkg. of 10/2.49**

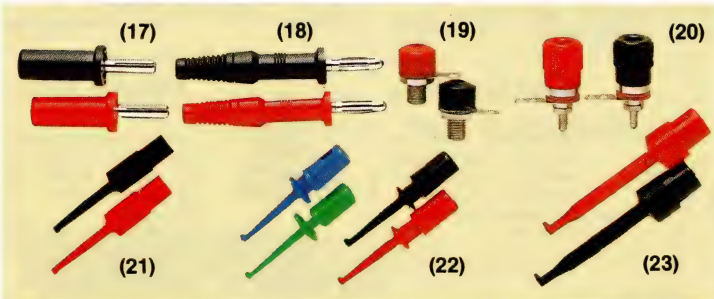
(14) Mini Clips. Rated 1 amp. 3.2cm long, open to 0.5cm. **270-380** .... **Pkg. of 12/2.99**

(15) 5cm Slim Clips. With screwdriver terminals. **270-346** ..... **Pkg. of 8/3.99**

(16) Claw Clips. Rated 5 amps. 4.1cm long, open to 0.3cm. Screwdriver terminals. **270-345** ..... **Pkg. of 8/3.99**



Banana Plugs, Binding Posts and Test Clips



(17) Solderless Banana Plug. Insulated, fit standard banana jacks. Knurled collar. 51mm long. One red, one black. **274-721 Set of 2/3.99**

(18) Flexible Banana Plugs. With flexible insulation and strain relief. Solder type. One red, one black. **274-730** ..... **Set of 2/3.49**

(19) Banana Jacks. Insulated. Require 0.6cm mounting holes. Fiber washers, solder lugs. One red, one black. **274-725** **Set of 2/1.99**

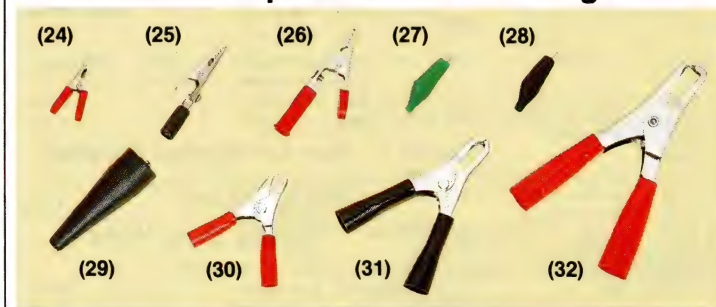
(20) Insulated Binding Posts. Versatile—they accept spades, phone tips, banana plugs, wire. Two red, two black. **274-661** ... **Set of 4/4.99**

(21) Micro Flat Test Clips. Thin design and 90° hook bend make these perfect for IC testing. Spring action 4.3cm long. One red, one black. **270-336** **2.49**

(22) Rainbow Pack of Micro Test Clips. Use when you need more than red and black for tests and temporary hookups. Spring action. 3.8cm long. **270-355** ..... **Set of 4/5.49**

(23) Mini Test Clips. Like (21) above, but 5.4cm long. Set includes one red and one black. **270-372** ..... **Set of 2/2.99**

Insulated Clips for Small and Large Jobs



(24) Mini Gator Clips. 3.5cm long. Five red and five black. Solder. **270-374** **Set of 10/2.49**

(25) 5.7cm Clips. Open to 0.8cm. Screw terms. Five red, five black. **270-375** ..... **Set of 10/3.99**

(26) 5.7cm Clips. Open to 1.1cm. Screw terms. Five red, five black. **270-347** ..... **Set of 10/3.49**

(27) Mini Clips. 3.2cm jaws open to 0.5cm. Crimp fins. Three black, three red, two green, two yellow. **270-378** ..... **Set of 10/2.99**

(28) 3.5cm Mini Clips. Open to 0.6cm. Screwdriver terminals. Set includes six black and six red. **270-1545** ..... **Set of 12/4.99**

(29) Heavy-Duty Clips. Rated 10 amps. 6.7cm long. Open to 1.3cm. Screwdriver terminals. Two black, two red. **270-349** ... **Set of 4/3.49**

(30) "Regular" Car Battery Clips. Rated 10 amps. 5.7cm long, open to 2.2cm. One red, one black. Solder or crimp. **270-344** ..... **Set of 2/2.99**

(31) "Jumbo" Clips. 30 amps. Ideal for hookup to car battery posts. 8.6cm long, open to 2.9cm. One red, one black. Solder or crimp. **270-343** ..... **Set of 2/2.99**

(32) 50-Amp Clips. For heavy-duty jobs such as repairing jumper cables or battery chargers. 11.4cm long, open to 2.9cm. Solder or crimp. **270-342** ..... **Set of 2/4.99**

TANDY IS YOUR WIRE AND CABLE CENTRE

2-Conductor Speaker Wire

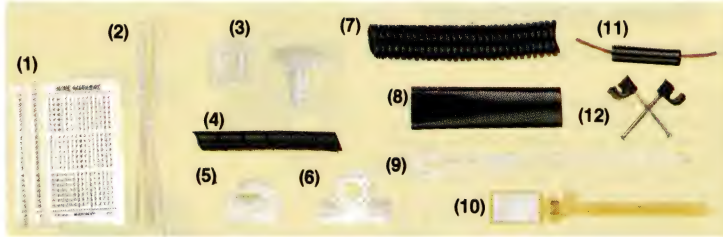
(A) Low-loss all-copper conductors. Clear insulation. Silver/copper colored for polarity identification.

Description	Gauge	Metre	Cat. No.	Each
Miniature Clear	24 Solid	23	278-1509	5.95
Medium Clear	22 Stranded	30	278-1385	11.95
Standard Clear	20 Stranded	23	278-1388	12.95
Low-Loss Clear	18 Stranded	9	278-1602	7.95
Low-Loss Clear	18 Stranded	18	278-008	14.95
Low-Loss Clear	16 Stranded	15	278-1267	15.95
Standard Brown	20 Stranded	30	278-1387	14.95
Heavy-Duty Brown	16 Stranded	9	278-1263	9.95
Heavy-Duty Brown	16 Stranded	30	278-1384	24.95

Zip Cord Specials

(B) Twin-conductor stranded copper wire with plastic insulation.

Description	Gauge	metre	Cat. No.	Each
2-Conductor, Plastic	18	9	278-864	6.95
Miniature, Plastic	24	15	278-1301	6.95
2-Conductor, Plastic	20	9	278-1265	6.95
2-Conductor, Plastic	18	30	278-1264	19.95



Cable Management Accessories for Neater Wiring

(1) NEW! Wire Markers. Two sheets of "peel and stick" letters and numerals let you organize, identify and add "pro" appearance to any wiring job. Total of 630 characters. **278-1650** **Set/3.99**

(2) 10cm Wire. Ties. Nylon, self-locking. Unbreakable. **278-1632** ..... **Pkg. of 30/2.99**
13cm Ties. 278-1631 ..... **Pkg. of 30/3.49**
20cm Ties. 278-1642 ..... **Pkg. of 30/4.99**

(3) Bushing for RG59, RG58 and RG62 Cables. 278-1643 ..... **Pkg. of 2/99c**

(4) Spiral Wrap. Neatly bundles long lengths of wire. Includes 1.5m clear, 1.5m black. 10mm diameter. **278-1638** **3.99**

(5) Cable Clips. Adjusts to wire size, up to 12.7mm diameter. Self-adhesive. **278-1639** ..... **Pkg. of 10/4.99**

(6) Cable Clips. For cables up to 9.5mm dia. Self-adhesive. For smooth, non-porous surfaces. **278-1640** ..... **Pkg. of 10/4.99**

(7) Split Loom Tubing. Gathers loose wires into a neat bundle. 1.5m length 13mm diameter. **278-1624** **7.95**

(8) Heat-Shrink Tubing. Fits over wire and shrinks to half its original diameter when heated. 1.6 to 12.7mm sizes. **278-1627** ..... **Pkg. of 7/3.99**

(9) AC Cord Ties. For power cords and other cables. **278-1646** ..... **Pkg. of 6/1.49**

(10) Cable Tie/Marker. Makes it easy to identify wiring. Easily marked with ball-point or felt-tip pen. For cables up to 16mm diameter. **278-1648** ..... **Pkg. of 10/5.49**

(11) Wire-Tie Mounts. Self-adhesive, hold ties to any smooth, non-porous surface. 19x19mm. **278-441** ..... **Pkg. of 10/2.99**

(12) Coax Clips. Slip over cable and nail to wall. Keeps cable neat and secure.
For RG58/U. 20-192 ..... **Pkg. of 10/1.99**
For RG8/U. 20-193 ..... **Pkg. of 6/1.99**

Speaker Megacable

5.95 NEW FOR 89

Per Metre

Our Finest-Ever Speaker Cable

Features 12-gauge braided *pure* copper conductors enclosed in tough clear plastic insulation. Embedded red stripe for polarity ID. 14mm wide. Great for high-power audio. **278-1268 Metre/5.95**

CB/Ham Mike Cable

NEW FOR 89

11.95

Coiled extra-durable cable is specially designed for comunications use. Has four color-coded conductors (one is shielded). Extends to 1.5 metres.
278-355 ..... **11.95**

Hook-Up Wire Packs

Solid or Stranded

†Total metres.

3 Spools, 3 Assorted Colors

Fig.	Type	Ga.	†m	Cat. No.	Each
13	Stranded	18	14	278-1303	5.95
13	Stranded	20	18	278-1304	5.95
14	Solid	22	27	278-1306	5.95
13	Stranded	22	23	278-1307	5.95

Single Spools, Stranded

Colour	Ga.	†m	Cat. No.	Each
Red	10	100	278-9630	7.95
Black	10	100	278-9631	7.95
Yellow	10	100	278-9633	7.95
White	10	100	278-9635	7.95

Shielded Cable

(15) Low Cost 2-Core Fully Shielded Heavy-Duty Microphone Cable.
278-9517 ..... **1.99/m**

(16) Heavy-Duty with Braided Shield. 12m. **278-751** **14.95**

(17) Single-Conductor with Braided Shield. 6m. **278-1277** **5.95**

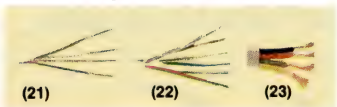
(18) 2-Conductor with Spiral Wrap Shield. 6m. **278-1276** **6.95**

Replacement Cords

(19) 1.8m AC Power Cord with round female plug. **278-9510** **3.99**
1.8m AC Power Cord with square female plug. **278-9511** **3.99**
1.8m AC Power Cord with figure 8 female plug. **278-9512** **3.99**

(20) AC Power Cord. 3-core.
278-9001 ..... **metre/1.49**

Telephone Cable



(21) 2-Pair twisted phone/intercom cable. 4 x 1 strand/0.5mm tinned conductors, color coded.
278-9527 ..... **metre/39¢**

(22) 3-Pair twisted phone/intercom cable. 6 x 1 strand/0.5m tinned conductors, color-coded.
278-9528 ..... **metre/59¢**

(23) Modular Cable. Four conductors, 26-gauge, color-coded insulation. **15 metres. 278-365** **12.95**
30 metres. 278-366 ..... **24.95**

Test-Probe Wire

Flexible plastic insulation, 20-gauge stranded copper. 7.6m long.
Red. 278-553 ..... **4.99**
Black. 278-554 ..... **4.99**

Two-Conductor Bonded

18-gauge stranded. Red and black insulation. 7.6m. **278-1250** **7.95**

Heavy-Duty Wire

12-gauge, 6.1m length.
Red. 278-1289 ..... **6.95**
Black. 278-1280 ..... **6.95**

Solid Bus Wire

15 metres. Pretinned 24-gauge bare coper wire on a plastic spool. Ideal for projects on perforated boards.
278-1341 ..... **3.99**

Magnet Wire

3-Spool Set

Ideal for winding coils. Includes 12.2m of 22-gauge, 22.9m of 26-gauge, 61m of 30-gauge.
278-1345 ..... **9.95**

Audio Cable

Flat four core audio cable. Each core separately shielded and covered with black PVC. Color-coded. 4 x 10/0.1mm conductors. O.D. 4 x 2.5mm.
278-9514 ..... **m/99¢**

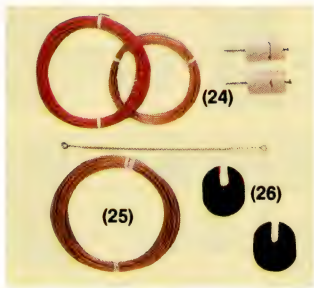
Rainbow Wire

Flexible flat cable for low-voltage hook-ups. Solid 24-gauge copper.
2-Conductor, 10.5m. 278-755 .... **6.49**
4-Conductor, 7.6m. 278-757 ..... **6.49**

Alarm Wire

30m Twisted Pair. 278-860 ..... **12.95**
2-Pair Twisted Wire. 278-9515 .. **69c/m**
3-Pair Twisted Wire. 278-9516 .. **99c/m**

SW Antenna, Accessories



(24) Complete Shortwave Kit. Everything you need for an outdoor antenna. Package includes 23m of copper antenna wire, 15m lead-in wire, window feed-through, insulators and complete instructions. **278-758** **22.95**

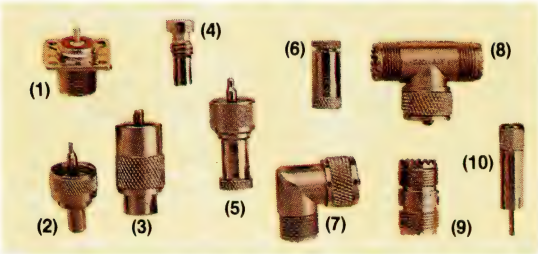
(25) Heavy-Duty Antenna Wire. 20m of high-strength seven-strand, 22-gauge bare copper wire. **278-1329** **9.95**

(26) Insulators. Strong, low-loss material. For antenna centre and end insulators or guy wire installation. **278-1333** ..... **Pkg. of 2/1.99**

Visit Your Nearby Tandy Store for Assistance in Selecting the Correct Wire and Cable

COAX, RF/TV CONNECTORS & ADAPTERS

RF Connectors and Adapters



(1) **SO-239 Chassis Mount Socket.** UHF-type. **278-201** **2.99**

(2) **Solderless PL-259 Plug.** For RG58/U cable. **278-196** ..... **Pkg. of 2/ 6.95**

(3) **PL-259 Plug. 278-205** ..... **Pkg. of 2/ 6.95**

(4) **UG176/U Reducer.** For RG59/U cable. **278-204** ..... **Pkg. of 2/ 1.99**

UG175/U Reducer. For RG58/U cable. **278-206** ..... **Pkg. of 2/ 2.99**

(5) **Solderless PL-259 Connector for RG59/62 and Mini-8 Coax.** Twists onto cable. **278-191** **3.49**

(6) **Inline Splicer for RG58/U Cable.** Join or extend cable. No special tools needed. Positive contact maintains impedance. **278-202** **3.99**

Inline Splicer for RG59/U. 278-203 ..... **3.99**

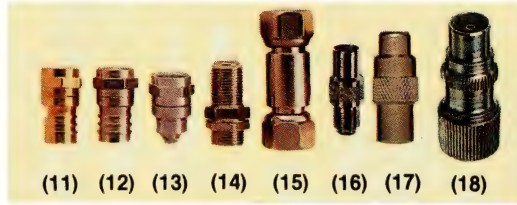
(7) **M-359 Right-Angle Adapter.** SO-239 socket to PL-259 plug. **278-199** **4.99**

(8) **M-358 "T" Adapter.** Two SO-239 sockets to PL-259 plug. Useful for phasing lines. **278-198** **6.95**

(9) **PL-258 Coupler.** Joins two PL-259 plugs. **278-1369** **3.99**

(10) **Solderless Phono Plug.** Handy for video and RF applications. For RG59/U and RG62/U coaxial cables. **278-189** **4.99**

TV/FM Antenna Connectors



(11) **Gold Plated, Type CF-59.** For RG-59/U cable. Long 25mm crimping ring for extra holding power. **278-224** ..... **Pkg. of 2/4.99**

Gold-Plated, Type CF-56. Above for RG-6/U and "Aluminax"-type coaxial cables. **278-225** ..... **Pkg. of 2/4.99**

(12) **Type CF-59.** For RG-59/U cable. **278-222** **2.49**

Type CF-56. For RG-6/U and "Aluminax" cables. **278-223** **2.49**

(13) **Type F-59.** For RG-59/U cable used in TV antenna systems. **278-211** **2.49**

Type F-56. For RG-6/U and "Aluminax" cables. **278-214** **2.49**

(14) **F-61 Coupler.** Couples two F-59 connectors. **278-213** **1.99**

(15) **"F" Male to Male Adapter. 278-219** **2.99**

75-Ohm PAL Connectors

(16) **Coax Adapter.** "F" connector to Male PAL. **278-9260** **4.99**

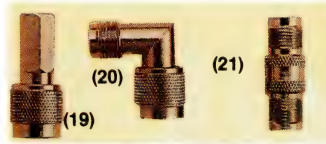
Coax Adapter. "F" connector to female PAL. **278-9261** **3.99**

(17) **Phono Jack to PAL Plug. 278-9605** **3.99**

(18) **75-Ohm PAL Plug (solderless).** Use with coax TV cable. **15-9540** **2.99**

PAL Socket. 15-9641 ..... **2.99**

TNC Connectors



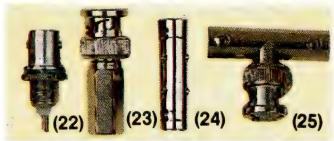
For local area networking and cellular telephone antenna connections.

(19) **Solderless Male.** For RG-58 Cable. **278-140** **4.99**

(20) **Right Angle.** Female to male. Avoids cable kinks. **278-141** **5.95**

(21) **Coupler.** Female to female. **278-142** **4.99**

BNC Connectors



(22) **Type 1094 Female BNC.** Mounts in single 5/16" hole. **278-105** **3.49**

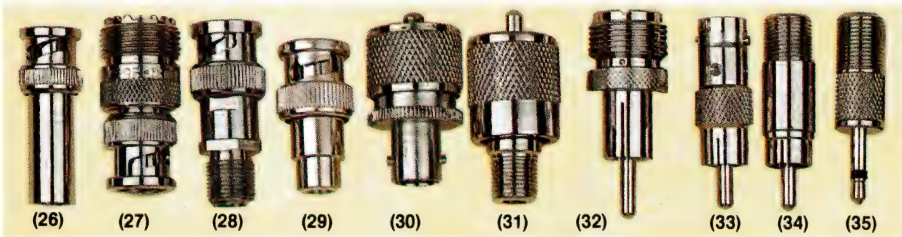
(23) **Type UG-88 Male BNC.** For RG58/U cable. Solderless. **278-103** **5.95**

For RG59/U and RG62/U. 278-104 ..... **5.95**

(24) **UG-914/U BNC Female to Female Adapter. 278-115** **4.99**

(25) **NEW! Type UG-274 BNL T Adapter.** 2 females to 1 male. **278-112** **5.95**

Wide Selection of Convenient Video and RF Adapters



(26) **NEW! BNC Male to Motorola-Type Female.** For fast hookup of scanners. **278-117** **5.95**

(27) **UG-225/U Adapter.** BNC male connects to SO-239. **278-120** **5.95**

(28) **BNC Male to Female F. 278-251** **5.95**

(29) **BNC Male to Phono Jack. 278-254** **5.95**

(30) **UG-273/U.** BNC Female to PL-259. **278-121** **5.95**

(31) **PL-259 Plug to Female F. 278-258** **4.99**

(32) **"Scanner" Coax Plug Adapter. 278-208** **3.99**

(33) **BNC Female to Phono Plug. 278-250** **4.99**

(34) **Female F to Phono Plug. 278-252** **2.99**

(35) **Female F to 1/8" Mini Plug. 278-257** **3.49**

Communication Coax Assemblies

(36) **7.31m. RG58/U.** PL-259 at each end. 52-ohm. **278-9700** **24.95**

14.63 metres. 278-9710 ..... **34.95**

(37) **0.61 metres. RG58/U.** PL-259 at each end. 50-ohm. **278-9680** **8.95**

(38) **3.66 metres. RG58/U.** PL-259 one end, stripped/tinned the other. **278-9660** **11.95**

Multi-Purpose, High-Grade Coaxial Cable

Low As 79¢ Per Metre

Ideal for amateur radio, CB, TV and FM use. Low-loss polyethylene dielectric with tough outer jacket.

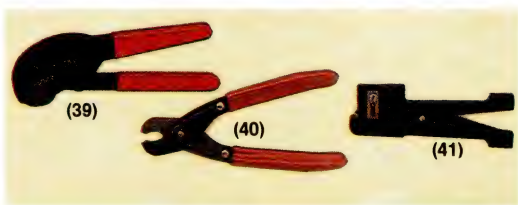
RG 59/U—Black 75—Ohm Coax Cable. Attenuation 4.9 dB/100 ft. @100 MHz O.D. 6.05mm. Solid copper conductor 0.65mm. Braided copper shield. **278-9513** ..... **metre/79¢**

75-Ohm—Black Cellular Polyethelene Airspaced. 75-Ohm Coax Cable Attenuation 3.8 dB/100 ft. @100 MHz O.D. 6.35mm. 20-gauge conductor. Braided copper shield. **278-1327** ..... **metre/99¢**

RG58/CU—Black 52-Ohm Coax Cable. Attenuation 3.6 dB/100 ft. @100 MHz O.D. 5.0mm. Conductor 1 x 12/0.19mm tinned copper. Braided shield-tinned copper. **278-9626** ..... **metre/89¢**

RG213—MIL-C-17D. 50-Ohm UHF Coaxial Cable. Attenuation 1.8 dB/100 ft. @100 MHz O.D. 10mm conductor 13-gauge x 21 copper. Braided shield. Military specification. **278-9213** **metre/2.99**

Crimping Tools and Coax Cutters



(39) **Professional Crimp Tool.** Our best! Use with #278-222/223/224/225 connectors for excellent results. **278-243** **21.95**

(40) **Coax Cable Cutter.** Cutter is designed with blades which let you cut without flattening your cable. Preserves impedance. **278-244** **9.95**

(41) **Coax Cable Stripper.** Adjustable blades give perfect strips with RG6, 59, 8M, 62 and other cables 5 to 8mm diameter. **278-240** **24.95**

THE PLACE FOR AUDIO PLUGS AND JACKS

Everything in ¼", ⅛" and Phone Plugs

(1) Three-Conductor (Stereo) ¼" Plugs. ½"-dia. barrel. **274-139** . . . . **Pkg. of 2/4.49**

(2) Three-Conductor ¼" Shielded Plug. Shield reduces hum. With 1⅝"-long, nickel-plated barrel. **274-285** **3.49**

(3) Three-Conductor ¼" Shielded Plug. All-metal "grip" barrel, spring-coil cable strain relief. **274-1546** **4.49**

(4) NEW! Three-Conductor ¼" Shielded Right-Angle Plug. 90° bend saves space, helps reduce cable strain. **274-264** . . **3.99**

(5) Two-Conductor (Monaural) ¼" Plugs. Plastic barrel. **274-1536** . . . **Pkg. of 2/3.99**

(6) Two-Conductor ¼" Shielded Plugs. **274-1544** . . . . . **Pkg. of 2/5.49**

(7) Two-Conductor ¼" Shielded Plug. All-metal "grip" barrel, spring-coil cable strain relief. **274-1545** **3.49**

(8) Two-Conductor ¼" Shielded 90° Plugs. Space-saving design. Screwdriver terminals. **274-254** . . . . . **Pkg. of 2/3.99**

Two-Conductor ⅛" Plugs. 41mm long.

(9) Black. 274-286 . . . . . **Pkg. of 2/2.99**

(10) Red. 274-287 . . . . . **Pkg. of 2/2.99**

(11) Shielded. 274-288 . . . . . **Pkg. of 2/3.49**

(12) Three-Conductor ⅛" Mini Plugs. Solder terms. **274-284** . . . . . **Pkg. of 2/4.49**

(13) Three-Conductor Shielded ⅛" Plug. Spring strain relief. **274-1547** **3.99**

Two-Conductor 3/32" Submini Phone Plugs. Solder terminals. 24mm long.

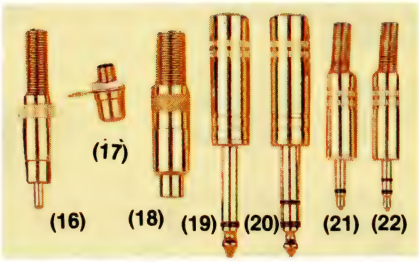
(14) Black. 274-289 . . . . . **Pkg. of 2/2.49**

(15) Red. 274-290 . . . . . **Pkg. of 2/2.49**

Gold-Plated Connectors

NEW FOR 89

- Highest Performance
- Premium Appearance



(16) Phono Plug. 274-850 . . . . . **4.99**

(17) Chassis-Mount Phono Jack. 274-852 . . . . . **Pkg. of 2/4.99**

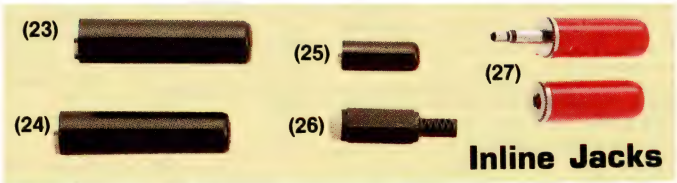
(18) Inline Phono Jack. 274-854 . **5.95**

(19) Two-Conductor (Monaural) ¼" Phone Plug. 274-855 . . . . . **6.95**

(20) Three-Conductor (Stereo) ¼" Phone Plug. 274-856 . . . . . **7.95**

(21) Two-Conductor ⅛" Phone Plug. 274-857 . . . . . **5.95**

(22) Three-Conductor ⅛" Phone Plug. 274-858 . . . . . **6.95**



Inline Jacks

Ideal for Making Your Own Extension Cords

(23) Two-Conductor (Mono) ¼" Phone Jacks. 274-340 . . . . . **Pkg. of 2/1.99**

(24) Three-Conductor (Stereo) ¼" Phone Jacks. 274-141 . . . . . **Pkg. of 2/4.49**

(25) Two-Conductor ⅛" Jacks. 274-333 . . . . . **Pkg. of 2/2.99**

(26) Three-Conductor ⅛" Jacks. 274-274 . . . . . **Pkg. of 2/3.99**

(27) Two-Conductor (Monaural). ⅛". Set includes two plugs, two jacks. **274-283** **4-Piece Set/4.49**

Open-Frame Jacks

(28) Two-Conductor (Monaural ¼" Open Circuit. 274-252 . . **Pkg. of 2/3.49**

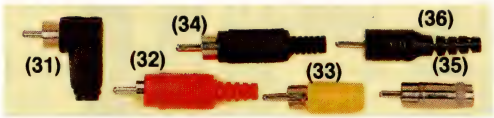
Two-Conductor ¼" Closed Circuit. 274-255 . . . . . **Pkg. of 2/3.49**

(29) Two-Conductor ⅛" Mini Jacks.

Open Circuit. 274-251 . . **Pkg. of 3/3.49**

Closed Circuit. 274-248 . **Pkg. of 2/3.49**

(30) Two-Conductor 3/32" Submini Jacks. Closed circuit. **274-292** . . . . . **Pkg. of 2/2.99**



Phono Plugs

(31) Solderless 90°. Right-angle design saves space, reduces cable damage. Two red, two black. **274-383** . . . . . **Set of 4/3.99**

(32) Solderless. Two red, two black. **274-384** . . . . . **Set of 4/3.99**

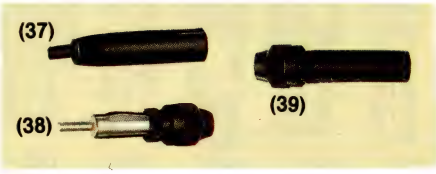
(33) Colour-Coded. 274-321 . . . . . **Pkg. of 8/4.49**

(34) Plastic Grip. 274-319 . . . . . **Set of 4/2.99**

(35) Shielded. Easy to solder. **274-339** . . . . . **Pkg. of 2/2.99**

(36) Plastic Grip with Strain Relief. Three black, three red. Long sleeve cuts cable damage. **274-451** . . . . . **Set of 6/3.99**

"Car Radio" Connectors

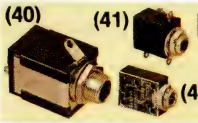


(37) Inline Motorola-Type Jack. 11.5cm cable. **274-713** **2.49**

(38) Solderless Motorola-Type Plug. 274-709 . **2.99**

(39) Solderless Motorola-Type Jack. 274-710 . **2.99**

Enclosed Jacks



Low As **1.99** Each

Fig.	Size	Cond.	Circuit	Cat. No.	Price
40	¼"	2	Open	274-280	2.49
41	⅛"	2	Open	274-297	2/2.49
41	⅛"	2	Closed	274-296	2/2.49
42	⅛"	3	Open	274-249	2/1.99
42	⅛"	3	Closed	274-250	2/4.49

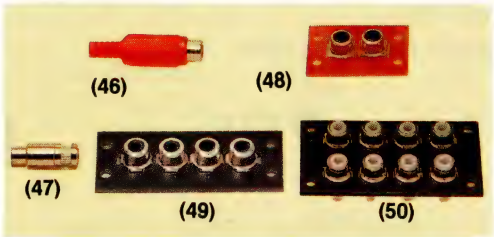
Mike Connectors

(43) Eight-Pin Mike Plug. Fits many popular Ham transceivers. Great for adding accessories. **274-025** . . **5.95**

(44) Four-Pin Chassis-Mount Socket. 274-002 . . . . . **3.49**

(45) Four-Pin Plug. Many communications uses. **274-001** **3.99**

Values in Phono Jacks



(46) Plastic Inline. Hex-shape. Strain relief, twist-together housing. **274-337** . . . . . **Pkg. of 2/2.99**

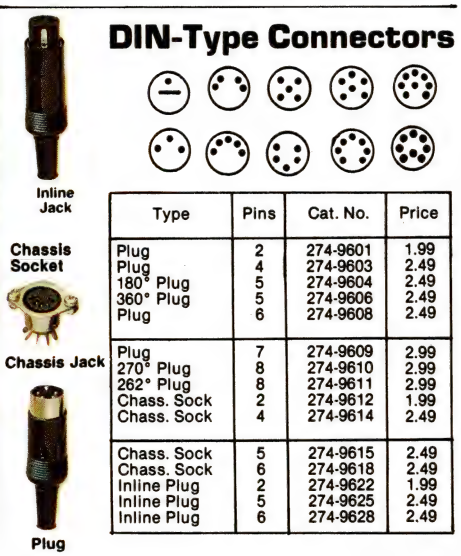
(47) Shielded Inline. Metal construction cuts hum. **274-338** . . . . . **Pkg. of 2/2.99**

(48) Dual Phono Jacks. Chassis-mount for stereo changers, amplifiers, receivers. Each accepts two phono plugs. **274-332** . . . . . **Pkg. of 2/1.49**

(49) Four-Position Phono Jack Board. Chassis mount, accepts up to four plugs. **274-322** **1.99**

(50) Eight-Position Phono Jack Board. Chassis mount. **274-370** **2.99**

DIN-Type Connectors



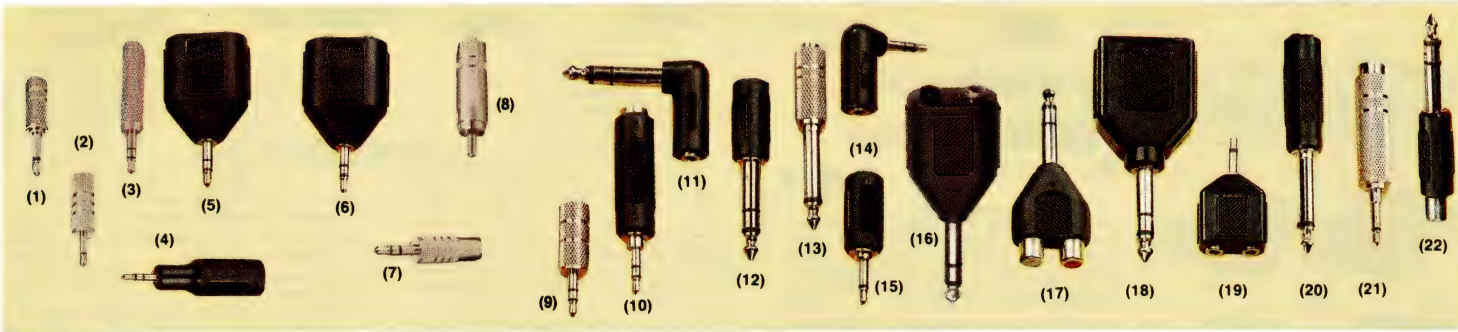
Type	Pins	Cat. No.	Price
Plug	2	274-9601	1.99
Plug	4	274-9603	2.49
180° Plug	5	274-9604	2.49
360° Plug	5	274-9606	2.49
Plug	6	274-9608	2.49
Plug	7	274-9609	2.99
270° Plug	8	274-9610	2.99
262° Plug	8	274-9611	2.99
Chass. Sock	2	274-9612	1.99
Chass. Sock	4	274-9614	2.49
Chass. Sock	5	274-9615	2.49
Chass. Sock	6	274-9618	2.49
Inline Plug	2	274-9622	1.99
Inline Plug	5	274-9625	2.49
Inline Plug	6	274-9628	2.49

See Page 26 for More Audio Connectors, Adapters and Patch Cords

PLUG ADAPTERS AND XLR CONNECTORS

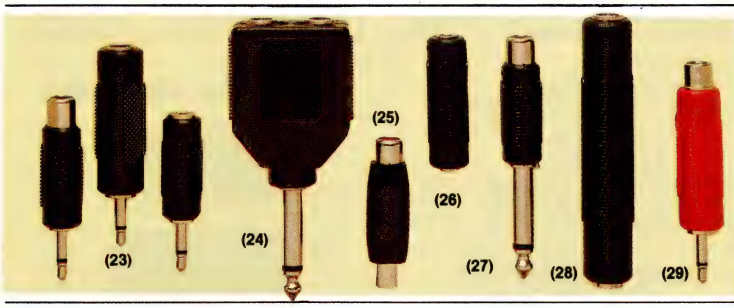
Headphone and Dubbing Adapters

Adapters on this page provide reliable hookups between different connector formats. Many are Tandy Electronics exclusives and all (except XLRs) will handle line and speaker-level signals.



(1) Accepts 3/32" Stereo Plug. Plugs Into 1/8" Mono Jack. Use lightweight stereo headsets with monaural scanners, recorders, radios. **274-386** **3.99**
(2)(1) Accepts 1/8" Stereo Plug. Plugs Into 3/32" Mono Jack. 274-381 ..... **2.99**
(3) Accepts 3/32" Stereo Plug. Plugs Into 1/8" Stereo Jack. Use stereo headphones having a 3/32" (submini) plug with stereo portables having 1/8" jack. **274-377** ... **3.99**
(4) Accepts 1/8" Stereo Plug. Plugs Into 3/32" Stereo Jack. 274-373 ..... **5.49**
(5) Accepts Two 1/8" Mono Plugs. Plugs Into 1/8" Stereo Jack. Use to dub from personal portable stereo to a home deck. Outputs are L/R coded. **274-375** **6.95**
(6) Accepts Two 1/8" Stereo Plugs. Plugs Into 1/8" Stereo Jack. Share your music! Y-adapter lets you use two stereo headsets with one personal stereo. **274-313** ... **6.99**
(7) Accepts Phono Plug. Plugs Into 1/8" Stereo Jack. 274-378 ..... **3.49**
(8) Accepts 1/8" Stereo Plug. Plugs Into Phono Jack. 274-387 ..... **3.49**
(9) Accepts 1/8" Mono Plug. Plugs Into 1/8" Stereo Jack. Use to dub from monaural portable to a stereo recorder. Combines L/R channels. **274-374** **3.49**
(10) Accepts 1/4" Stereo Plug. Plugs Into 1/8" Stereo Jack. 274-366 ..... **4.99**
(11) Accepts 1/8" Stereo Plug. Plugs Into 1/4" Stereo Jack. Right-angle type. Use "mini" stereo headphones with equipment having 1/4" stereo jacks. **274-371** .. **4.99**
(12) Straight Version of Fig. 11. 274-367 ..... **4.99**
(13) Accepts 1/8" Stereo Plug. Plugs Into 1/4" Monaural Jack. Use comfortable "mini" stereo headphones with Ham, shortwave, CB and scanner radios. **274-348, 3.99**
(14) Accepts 1/8" Stereo or Monaural Plug. Plugs Into 1/8" Stereo or Monaural Jack. 90° bend helps prevent cord and jack damage. **274-372** **4.49**
(15) Accepts 1/8" Stereo Plug. Plugs Into 1/8" Monaural Jack. Use stereo headphones with TVs, radios, recorders, walkie-talkies, scanners. **274-368** **2.99**
(16) Accepts Two 1/8" Mono Plugs. Plugs Into 1/8" Stereo Jack. 274-307 .. **7.95**
(17) Accepts Two Phono Plugs. Plugs Into 1/4" Stereo Jack. Excellent for use with dub-out jack on stereo receivers. Outputs are L/R coded. **274-308** **6.49**
(18) Accepts Two 1/4" Stereo Plugs. Plugs Into 1/4" Stereo Jack. 274-302 .. **7.95**
(19) Accepts Two 1/8" Monaural Plugs. Plugs Into 1/8" Mono Jack. 274-310 . **3.99**
(20) Accepts 1/4" Stereo Plug. Plugs Into 1/4" Monaural Jack. Use stereo headphones with monaural CB, ham, shortwave and scanner radios. **274-360** **3.49**
(21) Accepts 1/8" Stereo Plug. Plugs Into 1/8" Monaural Jack. 274-361 ..... **3.99**
(22) Accepts 1/8" Monaural Plug. Plugs Into 1/4" Stereo Jack. 274-363 .... **3.99**

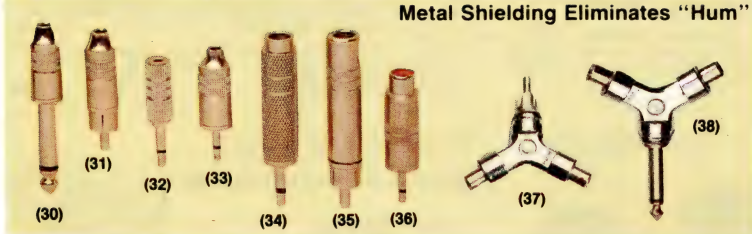
Adapters for Various Hookups



(23) Three-Piece Monaural Adapter Set. Adapts 3/32" submini plug, 1/4" phone plug or phono plug to plug into 1/8" monaural jack. **274-359** ..... **Set 5.99**
(24) Accepts Two 1/4" Monaural Phone Plugs. Plugs Into 1/4" Monaural Jack. Use two mikes with single mike input on recorder or amplifier. **274-309** **5.99**
(25) Accepts Two Phono Plugs. Use to connect two cables with phono plugs. **274-1553** ..... **Pkg. of 2/3.49**
(26) Accepts Two 1/8" Stereo or Mono Plugs. Coupler. **274-1555** **3.49**
(27) Accepts Phono Plug. Plugs Into 1/4" Monaural Jack. 274-320 ... **Pkg. 2/5.49**
(28) Accepts Two 1/4" Stereo or Mono Phone Plugs. Coupler. **274-1556** ... **4.49**
(29) Signal Reducer. Accepts phono plug. Plugs into 1/8" monaural jack. Built-in 40 dB attenuator lets you use a portable recorder's mike input to tape from line-level aux or tape-out sources without distortion. **274-300** **4.49**

Shielded Monaural Adapters

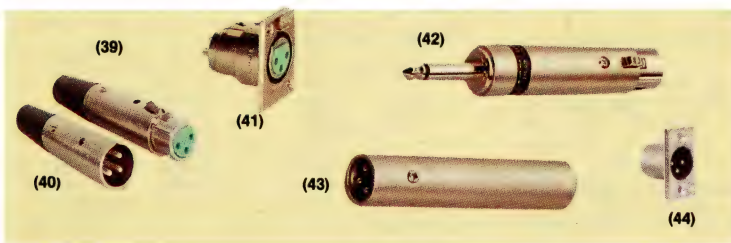
Metal Shielding Eliminates "Hum"



(30) Accepts 1/8" Plug. Plugs Into 1/4" Jack. 274-325 ..... **2.99**
(31) Accepts 1/8" Plug. Plugs Into Phono Jack. 274-326 ..... **2.99**
(32) Accepts 3/32" Submini Plug. Plugs Into 1/8" Jack. 274-328 ..... **2.99**
(33) Accepts 1/8" Plug. Plugs Into 3/32" Submini Jack. 274-327 ..... **2.99**
(34) Accepts 1/4" Phone Plug. Plugs Into 1/8" Jack. 274-047 ..... **2.49**
(35) Accepts 1/4" Phone Plug. Plugs Into Phono Jack. 274-389 ... **Pkg. of 2/4.99**
(36) Accepts Phono Plug. Plugs Into 1/8" Jack. 274-330 ..... **3.49**
(37) Accepts Two Phono Plugs. Plugs Into Phono Jack. Y-adapter for combining or dividing monaural signals. **274-303** **4.49**
(38) Accepts Two Phono Plugs. Plugs Into 1/4" Phone Jack. Y-adapter for combining or dividing signals. **274-304** **4.49**

XLR Connectors and Adaptors

For "Pro" Audio Systems



(39) 3-Pin Plug. All-metal die-cast body for durability and shielding. Satin finish. **274-010** **9.95**
(40) 3-Pin Inline Socket. Mates with figures 42 and 46. Cable strain relief. **274-011** **9.95**
(41) 3-Pin Panel Socket. Latching type with pushbutton release. Accepts figures 42 and 46. **274-013** **10.95**
(42) Adapter/Transformer. Accepts XLR Plug. Plugs Into 1/4" Phone Jack. Use XLR mike with amplifier or recorder that has 1/4" jack. Adapts low-Z balanced to high-Z unbalanced input. **274-016** **24.95**
(43) Adapter/Transformer. Accepts 1/4" Phone Plug. Plugs Into XLR Jack. Use high-Z unbalanced mike with equipment that requires low-Z balanced input. Use with 274-016 (above) for long cable runs to minimize high-frequency loss. **274-017** . **24.95**
(44) D3M-Type 3-Pin Panel Jack. Latching type accepts figure 43. **274-9501** **6.95**

See Page 89 for TV/VCR, Video and RF Plug Adapters

COMPUTER, AUDIO & POWER HOOKUPS

RS232 Testing and Connections

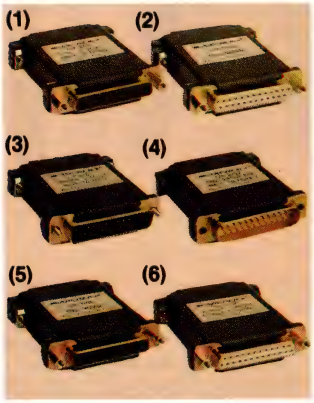
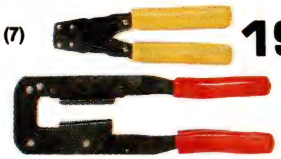


Fig	Function	Description	Cat. No.	Each
1	2 RS-232C Cables	Connector	276-9704	29.95
2	2 Computers & RS-232 Cable	Null Modem	276-9705	24.95
3	Male to Male RS-232C	Connector	276-9703	29.95
4	Mini Patch	Connector	276-9702	34.95
5	Mini Tester	Tester	276-9701	49.95
6	2 Lap Computers & RS-232C Cable	Null Modem	276-9706	24.95

D-Sub and IDC Tools



19.95

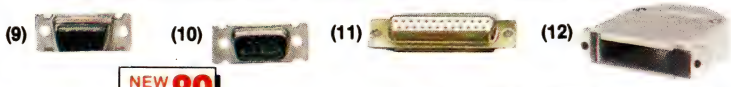
NEW FOR 89

24.95

(7) NEW! D-Sub Pin Crimping Tool. For speedy, damage-free installation of crimp-type D-Sub connector pins on wires. Professional-grade steel tool accepts #20, #24 and #28 pins and has thick cushion handle grips. 15cm long. **276-1595** **19.95**

(8) NEW! IDC Connector Tool. Built-to-last steel tool gives you reliable hookup for IDC-type connectors with flat cables. Thick cushion grips. 25cm long. **276-1596** ... **24.95**

D Subminiature Connectors and Hoods



NEW FOR 89

(9) Solder Contact. High quality! Assure trouble-free connections.

Positions	Type	Cat. No.	Each
9	Male	276-1427	1.99
9	Female	276-1428	2.49
25	Male	276-1429	5.95
25	Female	276-1430	5.95

(10) NEW! High-Density 15-Position Crimp. Same "footprint" as 9-position D-sub connectors and accept same hoods. High-quality gold-plated contacts.

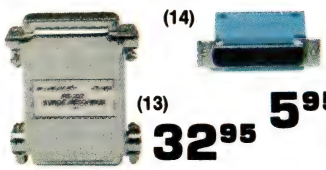
Type	Cat. No.	Each
Male	276-1418	8.95
Female	276-1419	9.95

Fig.	Pos.	Solder-Type	Cat. No.	Each
11	9	Male	276-1537	2.99
	9	Female	276-1538	4.99
	15	Male	276-1527	4.99
	15	Female	276-1528	5.95
	25	Male	276-1547	3.99
	25	Female	276-1548	5.95

(12) Metalized Plastic Hoods. Shielded.
NEW! 9-Pos./HD 15-Pos. 276-1513 ..... **2.99**
25-Position. 276-1536 ..... **3.99**
25-Pos. Multipurpose. Use as standard hood or null modem foundation. **276-1520** **3.99**

Standard Hoods(not shown)	Cat. No.	Each
9 and High-Density 15	276-1539	3.99
25	276-1549	3.99
15	276-1529	4.99

Protector & Adapter



5.95

32.95

(13) RS232 Spike Protector. Install in each RS232 port & stop spikes cold.
276-1402 ..... **32.95**

(14) RS232 Modular Jack Adapter. 25-position S-sub female to 6-position modular phone jack. **276-1405** **5.95**

Solderless Connectors and Ribbon Cable

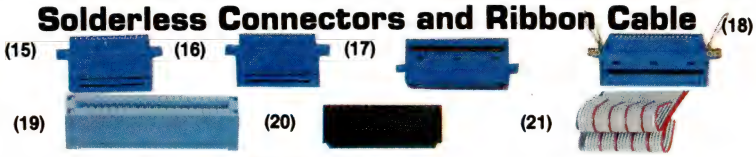


Fig.	Description	Cat. No.	Each
15	D-Sub 25 Male	276-1559	7.95
16	D-Sub 25 Female	276-1565	7.95
17	36-Pos. IDC Male	276-1533	9.95
18	36-Pos. IDC Female	276-1523	9.95

(19) 34-Position Card-Edge Connector. For disk drives. **276-1564** **7.95**

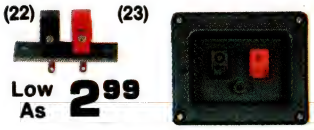
(20) 34-Position Header Connector. Fits parallel printer port of many microcomputers. **276-1525** **4.99**

(21) Ribbon Cable.
26 Conductor RS232 Ribbon Cable.
276-9772 ..... **3.29/metre**
34 Conductor. 276-9773 ..... **3.99/metre**

9.95

36-Position Printer Connector. Solder-type connector for parallel (Centronics) printers. **276-1534** **9.95**

Speaker Terminals

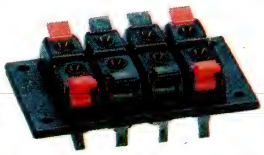


Low As **2.99**

(22) Two-Position Push Terminals. Spring-action insertion/release. 5.4x1.9cm mounting holes. 3.5cm apart. **274-315** **2.99**

(23) Terminal Plate. Just the thing for hi-fi and PA speakers. Spring terminals for wire hookup. Includes RCA-type phono jack.
274-625 ..... **4.99**

Pushbutton Terminals



Low As **3.99**

Fast and Secure!

Eight-Position. Spring-action lever for quick hookup and positive contact. Mounting holes 3cm apart.
274-623 ..... **5.95**

Four-Position. Version of above. Holes 6cm apart. **274-622** **3.99**

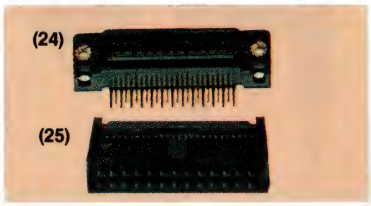
Two-Position. 274-621 ..... **3.99**

Terminal Strips

Low As **1.99**

"European" Barriers. Safety recessed set-screws. Great for alarm systems. 8-Position.
274-678 ..... **1.99**
12-Position. 274-679 ..... **2.99**

Computer Hookups



(24) Sub-D 25-Position Right Angle Connector. 276-1521 ..... **6.95**

(25) 26-Position Header Connector. With strain relief for ribbon cable.
276-9525 ..... **4.99**

DC Power Connectors

NEW FOR 89

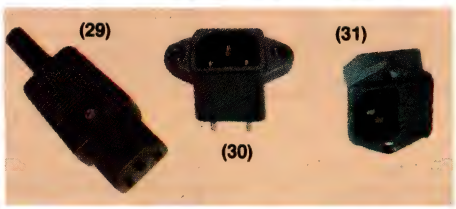
(1) NEW! Heavy-Duty Metal DC Power Jack. 5.5 mm outside diameter, 2.1 mm I.D. 7/16"-mtg. hole. **274-1563** **3.99**

(27) Molded DC Power Jack. 5.0 mm O.D., 2.1 mm I.D.
274-1565 ..... **Pkg. of 2/2.99**

(28) Coax Plugs. Ideal for changing AC adapter terminations.

O.D.	I.D.	Cat. No.	Pkg. of 2
3.5 mm	1.1 mm	274-1574	3.49
3.5 mm	1.3 mm	274-1571	3.49
5.0 mm	1.6 mm	274-1570	2.99
5.0 mm	2.1 mm	274-1567	2.99
5.0 mm	2.5 mm	274-1568	2.99
5.5 mm	2.1 mm	274-1569	2.99
5.5 mm	2.5 mm	274-1573	2.99
6.3 mm	3.0 mm	274-1572	2.99

I.E.C. Mains Connectors



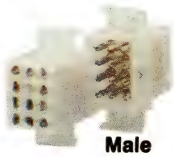
(29) 3-Pin Female Line Plug with Cable Clamp. Quality design ensures reliability. EA Approval #N10307. Rated 6A 250V AC. **274-9506** **5.95**

(30) 3-Pin Male Chassis Socket. EA Approval #CS9139N. Rated 6A 250V AC. **274-9507** **3.99**

(31) 3-Pin Male Chassis Socket with M205 Fuse Holder. Quality design ensures reliability. EA Approval #CS9139N. Rated 6A 250V AC. **274-9508 6.95**

Multi-Conductor Quick-Disconnects

Low As **2.99** Pair



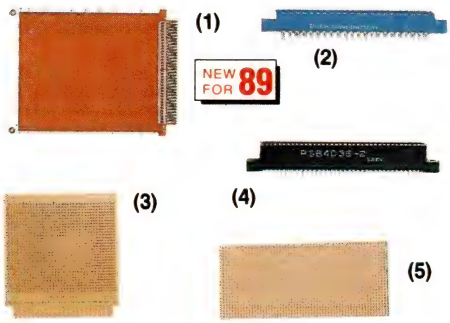
Durable, highest quality nylon connectors for electronic, appliance and automotive use. Polarized to assure proper hookup. Each circuit rated 8 amps at 125 VAC.

No. of Pins	Type	Cat. No.	Each
4	Male	274-224	2.99
6	Male	274-226	3.99
9	Male	274-229	3.99
12	Male	274-232	4.99
4	Female	274-234	2.99
6	Female	274-236	2.99
9	Female	274-239	3.99
12	Female	274-242	4.99

Two-Pin Male/Female Set. 274-222 ..... **Pair/2.99**

ARCHER® PCs - BASES FOR GREAT PROJECTS

Plug-Ins and Perfboards



(1) NEW! 72-Position Plug-In Board. 11.4x14.4cm, predrilled, with popular 250cm contact centres. 276-192 ..... **9.95**

(2) NEW! 72-Position Card-Edge Connector for Above. Mountable on standard IC-spaced PC board. **276-1452** **8.95**

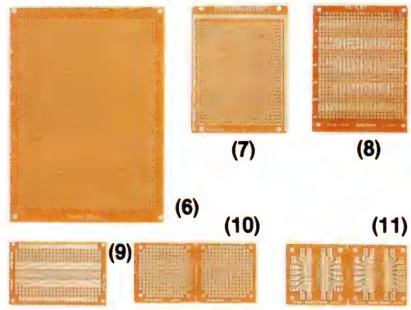
(3) 44-Position Plug-In Board. 11.4x10.2cm with 1/16″ grids. Three buses. **276-154** **5.95**

(4) 44-Position Card-Edge Connector for Figure 3. Solder-tail type. **276-1551** **5.95**

(5) IC-Spacing Perfboard. Have .042″ prepunched holes in standard 250x250cm grid.

Size	Cat. No.	Each
7x15.2cm	276-1395	3.99
11.4x15.2cm	276-1394	3.99
15.2x20.3cm	276-1396	5.95

Predrilled Boards



(6) Grid Boards. Accept DIP ICs, sockets and headers. Columns and rows are indexed to identify component pin outs. Solder-ringed holes.

Size	Holes	Cat. No.	Ea.
11.4x16.8cm	2200	276-147	6.95
7x9.5cm	750	276-158	3.99
4.7x7.2cm	356	276-149	1.99

(7) Universal PC Board. Accepts ICs up to 40 pins. Has a total of 750 indexed, solder-ringed holes, two buses, one grounding strip. 8.6x7.3cm. **276-168** **4.99**

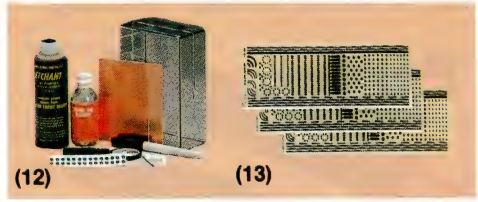
(8) IC/LSI Board. For LSI ICs up to 40 pins. Has 750 solder-ringed holes, indexed on both sides. DIP centres. 7.1x9.5cm. **276-162** **3.99**

(9) Multipurpose Board. Two bus strips at the centre. PC pattern printed on component sides speeds building. 417 solder points. 4.7x7.2cm. **276-150** **1.99**

(10) Dual Mini General-Purpose Board. 213 holes. 4.4x9.2cm. Can be snapped in half. **276-148** **2.49**

(11) Dual IC Board. Accepts two 6 to 20-pin DIPs. Four connecting points for each IC pin. 4.4x8.6cm. **276-159** **2.99**

Etch Your Own PC Boards



(12) PC Board Kit. Includes two 11.4x7.6cm copper-clad boards, resist-ink pen, solvent, etchant, layout strips/circles, tank, 1/16″ drill bit, instructions. **276-1576** **19.95**

Extra Pen. 276-1530 ..... **3.99**

Extra Etchant. 473 ml. **276-1535** **5.95**

(13) Direct-Etch Dry Transfers. Rub-on circles, strips, IC pads. **276-1577** ..... **Four Sheets 5.95**

PC Board Accessories

(14) PC Board Wire Terminals. Two-position. For reliable PC board interconnects. **276-1388** . **Pkg. of 4/3.99**

(15) Circuit Symbols Template. Durable guide helps you draw accurate and easy-to-read schematic diagrams. **276-180** **7.95**

Economy Cases

Low As 4.49

Styrene with internal slots for PC boards.

Size (cm)	Cat. No.	Each
10.2x5.1x2.1	270-220	4.49
11.2x6.2x2.7	270-221	4.99
12.1x6.5x2.7	270-222	5.95
15.2x8.1x4.8	270-223	6.95
19x11x5.6	270-224	7.95

Experimenter Boxes

Low As 3.99

Plastic bodies, aluminium covers.

Size (cm)	Cat. No.	Each
8.3x5.4x2.7	270-230	3.99
10.2x5.4x4.1	270-231	4.49
13.6x7x4.1	270-233	5.49
15.8x9.5x5	270-627	6.95

High Style Two-Tones

Easy-to-work metal with eggshell white bottoms, black tops. Include assembly hardware and protective rubber feet.

Low As 14.95

Size (cm)	Cat. No.	Each
4.9x21x15.6	270-272	14.95
7.8x21x15.6	270-274	19.95

Metal Cabinets

Low As 5.95

Size (cm)	Cat. No.	Each
8.3x5.4x10	270-251	5.95
13.3x7.6x15	270-253	9.95

Box and PC Combos

Low As 6.95 Includes PC board

Handsome deep grey plastic enclosures include IC-spaced 2.5mm pitch general-purpose etched and drilled PC board. Aluminium covers. Include screws and self-sticking vinyl feet.

5.4x8.4x3.5cm. **270-283** **6.95**

7x10.6x3.2cm. **270-284** **8.95**

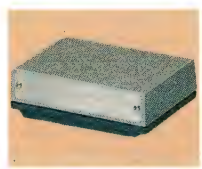
Dry Label Transfers

Four Sheets 5.95

The easy way to add professional labelling to projects. Includes rub-on letters, symbols, numbers and control calibration marks. For plastic and metal surfaces. **270-201** ..... **Set 5.95**

Electronic Project Enclosure

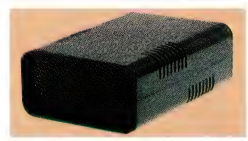
6.95



Just the thing for radios, clocks, stereo preamps and other projects you build. 13x 4.6x14cm. **270-210** **6.95**

Utility Box

11.95

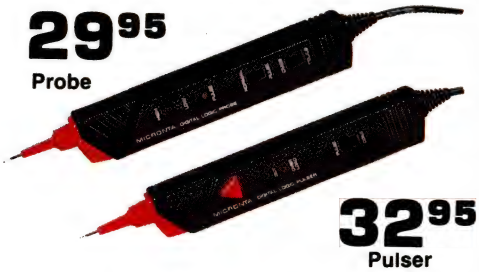


Black Plastic Box with Cooling Vents. Snap together design for easy assembly. No screws required. Removable front and back panels. 13.5x9.3x4.7cm. **270-9520** **11.95**

SEMICONDUCTORS AND DIGITAL ICs

Logic Probe and Pulser for TTL/LS/CMOS Testing

29.95 Probe



32.95 Pulser

Both Have 91cm Leads with Clips to Obtain Power from Tested Circuit

Digital Logic Probe. The fast way to "peek inside" TTL, LS and CMOS digital circuits, memory, microprocessor and peripheral chips. Color-coded LEDs indicate high, low or pulsed logic states (up to 10 MHz). Simultaneous tone output frees eyes for faster testing. Switches for normal or pulse modes, CMOS or TTL/LS testing. Input: 100,000 ohms. Minimum detectable pulse width: 50 ns. 4.7 to 15VDC. **22-303** **29.95**

Digital Logic Pulser. Together, the Pulser and Probe make an effective diagnostic team for today's digital circuits. Produces single 5 µs pulse or a continuous 5 Hz pulse train. Overload protection and low output impedance. 4.7 to 15VDC. **22-304** **32.95**

Voltage Regulator ICs for Replacement and Projects

Low As **2.49**

Adjustable Regulators. Ideal for variable DC power supplies and wherever a regulated nonstandard DC voltage is required. Both include specs and data.

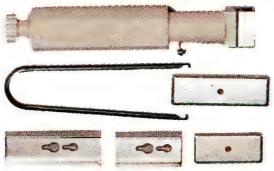
LM723. Adjustable from 2 to 37VDC. 150 milliamps maximum. 14-pin DIP. **276-1740** **1.99**

LM317T. Adjustable from 1.2 to 27VDC output. Heat sink such as #276-1363 (Fig. 8 on the facing page) is required for maximum current rating of 1.5 amps. TO-220 case. **276-1778** **3.99**

Fixed Regulators. Feature built-in overload protection and thermal shutdown. When control lead is grounded, regulated voltage is available at the output. Maximum input: 35VDC. Heat sink (#276-1363) is required for full 1 amp current rating. TO-220 cases.

Type	Output VDC	Cat. No.	Each
7805	+ 5	276-1770	2.49
7812	+ 12	276-1771	2.49
7815	+ 15	276-1772	2.49

IC Inserter/Extractor Set



13.95

Stop Bending Pins!

Install and remove 6-pin to 40-pin DIPs without damage. Extractor works with LSI, MSI and DIP devices. Both tools are groundable to protect static-sensitive MOS devices. **276-1581** **13.95**

Small-Signal Diodes

1N914/4148. Silicon switching type. 75 PIV. **276-1122** ..... **Pkg. of 10/1.99**

1N34A. Hard-to-find general-purpose germanium. 60 PIV. **276-1123** ..... **Pkg. of 10/1.99**

1.99 Pkg. of 10

1-Watt Zener Diodes

Type	Voltage	Cat. No.
1N4733	5.1	276-565
1N4735	6.2	276-561
1N4739	9.1	276-562
1N4742	12.0	276-563
1N4744	15.0	276-564

1.99 Pkg. of 2

Line Driver ICs for Data Transfer

2.99 Send/Receive Peripheral Data

MC1488 RS232 Quad Line Driver. Lets you hook up terminals and remote peripherals with a simple "twisted pair." Mixes different logic families. 14-pin DIP with data. **276-2520** **2.99**

MC1489 RS232 Quad Line Receiver. Use with above. Performs logic-level translation and can provide multiple outputs. 14-pin DIP with data. **276-2521** ... **2.99**

IC Pin Aligner

5.95 Board-Ready ICs in an Instant

Why use pliers? With just a squeeze bent pins become factory-straight. Made of conductive plastic with grounding post to safely drain static charge. For 6-pin to 40-pin DIPs. **276-1594** **5.95**

SCRs, Triacs

Low As **1.99**

6-Amp Silicon Controlled Rectifiers (SCRs). Ideal for motor speed control. With data.

Voltage	Cat. No.	Each
200	276-1067	1.99
400	276-1020	2.49

6-Amp Triac. For light dimmers, heat element control. Immune to transient damage. Rated up to 400V. With data. **276-1000** **2.99**

4000-Series CMOS ICs

Low As **1.99** With Pin-Out And Specs

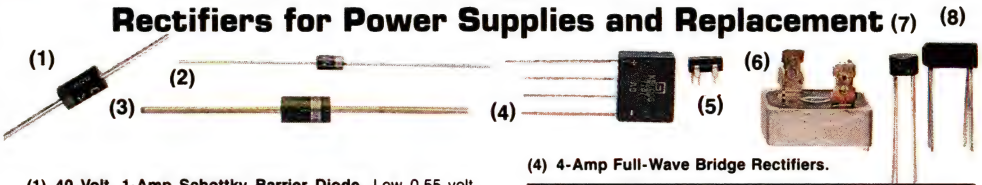
Description	Type	Cat. No.	Each
Quad 2-Input NOR Gate	4001	276-2401	1.99
Quad 2-Input NAND Gate	4011	276-2411	1.99
Dual Type-D Flip Flop	4013	276-2413	2.49
Decade Counter/Divider	4017	276-2417	2.99
Inverting Hex Buffer	4049	276-2449	2.49

TTL Digital ICs

With Pin-Out And Specs

Description	Type	Cat. No.	Each
Quad 2-Input NAND Gate	7400	276-1801	1.99
Hex Inverter	7404	276-1802	1.99
BCD to 7-Seg. Driver	7447	276-1805	3.49

Rectifiers for Power Supplies and Replacement



(1) 40-Volt, 1-Amp Schottky Barrier Diode. Low 0.55-volt forward voltage drop. Fast 0.2 µs reverse recovery time. Ideal for switching power supplies. **276-1165** ..... **Pkg. of 2/2.49**

(2) Micromini ~~1-Amp~~ Diodes. 30-amp surge.

Type	Peak Inverse Voltage (PIV)	Cat. No.	Package of 2
1N4001	50	276-1101	.99
1N4003	200	276-1102	1.49
1N4004	400	276-1103	1.49
1N4005	600	276-1104	1.99

(3) 3-Amp "Barrel" Diodes. 200-amp surge.

Type	(PIV)	Cat. No.	Package of 2
1N5400	50	276-1141	1.99
1N5402	200	276-1143	1.99
1N5404	400	276-1144	1.99

PTC205 2.5-Amp, 1000 PIV Silicon Diodes. The one to choose for high-voltage, high-current power supplies. **276-1114** ..... **Pkg. of 3/2.99**

(4) 4-Amp Full-Wave Bridge Rectifiers.

PIV	Cat. No.	Each
50	276-1146	2.99
100	276-1171	3.49
400	276-1173	3.99

(5) 1-Amp, 50 PIV Full-Wave Bridge Rectifier. Rated 25 amps. For PC board or socket mounting. Two fit into a 14-pin DIP socket. **276-1161** **1.99**

(6) 25-Amp, 50 PIV Full-Wave Bridge Rectifier. Just the thing for heavy-duty power supplies. Metal case for maximum heat dissipation. 1/8" square. **276-1185** **4.99**

(7) 6-Amp, 50 PIV Full-Wave Bridge Rectifier. Heavy duty. **276-1180** **3.99**

8-Amp, 250 PIV Full-Wave Bridge Rectifier. **276-1181** **3.99**

(8) 1.5 Amp Full-Wave Bridge Rectifiers. M548 cases.

PIV	Cat. No.	Each
50	276-1151	1.99
100	276-1152	2.49

TRANSISTORS & MOUNTING ACCESSORIES

"How To" Books for Builders, Technicians and Students

7.95

Semiconductor Reference Guide. New 1989 edition! Exclusive cross-reference and substitution section lists over 80,000 types and their low-cost Radio Shack equivalents. Also provides detailed data on Radio Shack linear and digital ICs, modules, SCRs, LEDs, diodes and opto devices. Illustrated.
276-4012 ..... **7.95**

4.99

Getting Started in Electronics. By Forrest Mims III. The perfect "hands on" introduction to electronics. Features large diagrams and easy-to-understand text by one of the world's most popular technical authors. 128 pages. **276-5003** **4.99**

Mini-Notebook Series by Forrest Mims III

Timer ICs. Covers 555/556 ICs. 32 pages. **276-5010** **1.99**

Op Amps. Over 40 clever circuits. 48 pages. **276-5011** **2.99**

Optoelectronics. Projects range from simple LED circuits to lightwave communications. 48 pages. **276-5012** **2.99**

Basic Semiconductor Circuits. Learn to use transistors, LEDs, FETs, diodes and more. 48 pages. **276-5013** **2.99**

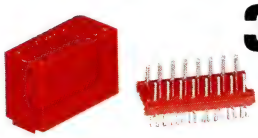
Digital Logic Circuits. Handy data on gates, TTL and CMOS devices, logic families, truth tables. 48 pages. **276-5014** ... **2.99**

Communications Projects. Telegraphs, lightwave communications, radio receivers. 48 pages. **276-5015** **2.99**

NEW! Formulas, Tables and Basic Circuits. Helps you understand and use Ohm's law, parallel and series resistance formulas plus data on math, color codes and more. **276-5016** **2.99**

DIP Header

3.49



Versatile Interconnect

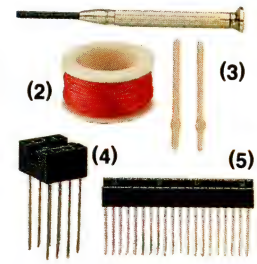
16-Position DIP Component Carrier. Plug-in module accepts resistors, capacitors, jumpers and more. Fits standard 16-pin DIP socket. With cover.
276-1980 ..... **3.49**

Static Protection

1.99

Conductive Foam Mat. For bench or shipping. Protects sensitive ICs and components from static discharge. Drains static charge slowly and safely. Easily cut. 12.7x12.7cm.
276-2400 ..... **1.99**

Wire Wrapping



(1) Wire-Wrapping Tool. Balanced 11.4cm all-metal tool for making solid wrap connections — much faster than soldering! Strips, wraps and unwraps 30-gauge wire. Stripper stores in handle. **276-1570** **11.95**

(2) 30-Gauge Wire for Wrapping. 15-metre spools. **Each 4.99**

Color	Cat. No.
Red	278-501

Color	Cat. No.
White	278-502

Color	Cat. No.
Blue	278-503

(3) Wire-Wrapping Posts. Insert and securely lock into standard perforated and PC boards. Accept three levels of wrap square. **276-1987** ..... **Pkg. of 2/1.99**

(4) (5) Wire-Wrapping Sockets. Square 0.025" posts accept three levels of wire.

Pins	Cat. No.	Pkg. of 2
8	276-1988	2.99
14	276-1993	2.99
16	276-1994	3.49

Pins	Cat. No.	Each
28	276-1983	2.99
40	276-1984	3.99

We're Your Replacement Transistor Source

Low As **1.49**

Includes Data and Pin-Out

Refer to Semiconductor Reference Guide (above) for complete data and cross-reference list.

Direct Commercial Equivalent	Replaces* GE† Type GE	Sylvania† Type ECG	RCA† Type SK	Pol.	Use	Diss.	Case	Cat. No.	Each
MPS2222A	20	123A	3122	NPN	GP	500mW	TO-92	276-2009	1.49
MPS3904	20	123A	3122	NPN	SW	350mW	TO-92	276-2016	1.49
TIP31	66	152	3054	NPN	P	40W	TO-220	276-2017	1.99
TIP3055	241	130	3027	NPN	P	90W	TO-220	276-2020	3.49
MPS2907	82	159	3025	PNP	SW	400mW	TO-92	276-2023	1.49
MJE34	34	197	3084	PNP	P	90W	TO-220	276-2027	2.99
TIP120	—	261	3180	NPN	D	65W	TO-220	276-2068	2.99
2N3055	14	181	3027	NPN	P	115W	TO-3	276-2041	3.99
MJ2955	74	219	3335	PNP	P	150W	TO-3	276-2043	3.99
2N4401	20	123AP	3444	NPN	SW	350mW	TO-92	276-2058	1.49

N-Channel Field-Effect Transistors (FETs)

Direct Commercial Equivalent	Use	Diss.	gfs min/max µmhos	Case	Cat. No.	Each
2N3819	GP	360mW	2.0/6.5	TO-92	276-2035	1.99
MPF102	VHF Amp,Mixer	310mW		TO-92	276-2062	1.99

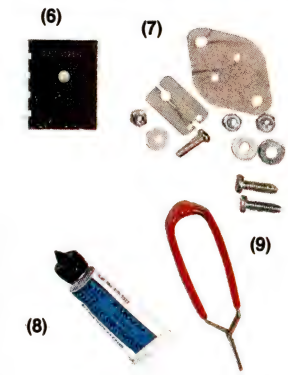
* In most circuits. See product package for exact device specs.

D = Darlington
GP = General Purpose

P = Audio Amp, Switch
SW = Switch
NOTE: Parameters: 25° C.

Heat Sinks and Mounting Hardware

Low As **1.99**



(6) TO-220 Heat Sink. Designed for PC board mounted power semiconductors in TO-220 cases. Anodized aluminum. **276-1363** **1.99**

(7) Mounting Hardware. For power semiconductors. With screws, insulating washers, solder lug, bushings. For TO-3 case. **276-1371** .... **Set 1.99**
Mounting Hardware for TO-220 Case.
276-1373 ..... **Set 1.99**

(8) Heat Sink Grease. Highly heat-conductive silicone compound insures proper heat transfer from power semiconductors to sink or chassis. 6.5 grams. **276-1372** **2.99**

(9) Heat Sink for Soldering. Strong spring clip with insulated handle. Essential for safe soldering of semiconductors and low-power passive components. **276-1567** **2.99**

TV & Power Devices

Low As **3.99**

(10) 2SC1308. NPN transistor used as horizontal output in many TVs. Replaces ECG-238, GE-38, SK-3115. TO-3 case. **276-2055** **13.95**

(11) IRF-511 Power MOSFET. Up to 60 VDC, 3 amps. "On" resistance: 0.6 ohm. TO-220 case. **276-2072** .. **3.99**

DIP Sockets

Low As **1.49**

Non-wicking solder-type for PC use.

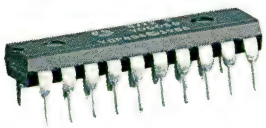
Type	Cat. No.	Pkg. of 2
8-Pin	276-1995	1.49
14-Pin	276-1999	1.99
16-Pin	276-1998	1.99

Type	Cat. No.	Each
18-Pin	276-1992	1.49
20-Pin	276-1991	1.49
24-Pin	276-1989	1.99
28-Pin	276-1997	1.99
40-Pin	276-1996	1.99

†GE is a Trademark of General Electric Co. ECG is a Trademark of Phillips ECG. SK is a Trademark of RCA Corp.

SHOP AT TANDY FOR ALL YOUR PARTS

Speech Recognition IC

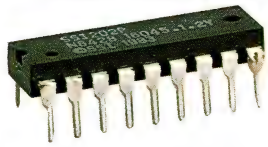


NEW FOR 89

19.95

VCP200. Explore leading-edge robotics and computer technology with voice recognition! Recognizes spoken commands regardless of the person speaking. 5 motion commands and 5 on/off or yes/no commands. 20-pin DIP. **276-1308** **19.95**

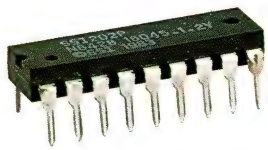
Touch-Tone Decoder IC



24.95

SS1202. Complete DTMF receiver in an 18-pin DIP. For Ham radio autopatching, repeater control and many other remote control applications. Hexadecimal or binary-coded 2 of 8 output. Single 5VDC supply. With data. **276-1303** **24.95**

FM Receiver On-A-Chip



11.95

TDA7000. Combines RF, mixer, IF and demodulator stages in one monolithic IC! Mute circuit reduces spurious reception. Frequency-locked-loop system with non critical 70 KHz IF. With data. **276-1304** . **11.95**

CMOS and Bipolar-Timer ICs

NEW FOR 89

Low As **2.99**

LS7210. Programmable digital delay timer. Range from 6 ms to infinity. On chip oscillator with alternate clock input. **276-1307** **9.95**

TLC555. Low-power CMOS design. Same pinout as 555, but operates up to 2 MHz. 8-pin DIP with data. **276-1718** **2.99**

555 Single Bipolar Timer. 8-pin DIP. Provides resettable timing from one micro second to one hour. From 4.5 to 16 VDC. **276-1723** **3.99**

556 Dual Bipolar Timer. 14-pin DIP. Provides resettable timing from one micro second to one hour. From 4.5 to 16 VDC. **276-1728** **4.99**

Audio Amplifier ICs

High-Quality Integrated Circuits

Low As **1.99**

TAD1520A. 20-watt high-fidelity power amp in a 9-pin single inline pack. Very low distortion. Short circuit & thermal protection. 20 to 20,000 Hz response. Req. 15-50 VDC. **276-1305** **11.95**

LM386. Amplifier for 8-ohm loads is ideal for battery-powered projects. Low distortion and current drain. 400mW output. Adjustable 20-200 gain. 4-12VDC supply. 8-pin DIP. **276-1731** **1.99**

LM383/TDA2002. Up to 8-watts RMS at 13.8 VDC. 4-ohm load. 5-pin TO-220. **276-703** **5.95**

TA7205AP. Ideal for import auto radios. 5.8w 4-ohm load. 9-18 VDC. THD: 0.7%. **276-705** **5.95**

Operational Amplifier ICs

With Specs

Low As **1.99**

741. A general purpose workhorse. Frequency compensated. 8-pin DIP. **276-007** **1.99**

1458 Dual Op Amp. Internally compensated. Low power consumption. Two 741 op amps in an 8-pin DIP. Split supply. 5 to 16 VDC. **276-038** **1.99**

LM324 Quad Op Amp. Operates on 3 to 30 VDC or split 1.5 to 15 VDC supply 14-pin DIP. **276-1711** . . **2.99**

TL082 Dual BIFFET Op Amp. Low-noise, hi-ZJFET inputs. 13V per uS slew rate. Split 4 to 18 VDC supply. 8-pin DIP. **276-1715** **3.99**

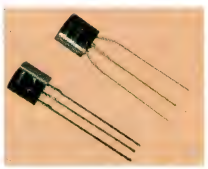
LM339 Quad Comparator. 4 independent volt comparators in a 14-pin DIP. 2 to 32 VDC. **276-1712** . . **1.99**

Bargains for Every Builder and Experimenter! Only $3.99 Each

Package of 50 Diodes

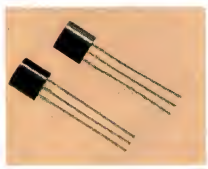
1N914/4148. Silicon, ideal for logic. Switching time as low as 4 ns. PRV: 90. **276-1620** **3.99**

15 NPN Transistors



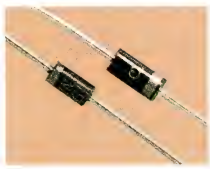
General-Purpose. 600 mW. Pkg. of 15. **276-1617** **3.99**

15 Amplifying Transistors



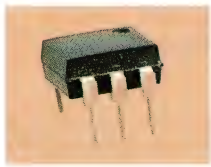
PNP small-signal transistor type, similar to 2N3906. 350 mW. To-92 case. **276-1604** **3.99**

25 Rectifier Diodes



1N4000-Series. 10 1N4001s, 5 1n4002s, 5 1N4004s, and 5 others. **276-1653** **3.99**

Package of 3 Optocouplers

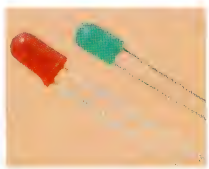


Includes one with a transistor output, one Darlington output and one other type. **276-139** **3.99**

10 Rectangular LEDs

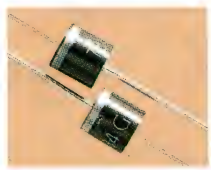
Pack may include red, green, yellow, regular and high-efficiency types. **276-1655** . . . **3.99**

20 Assorted LEDs



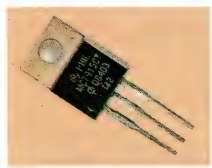
May include types MV5054, MV-50, RL-209 in red, green, plus infra-reds & indicators. **276-1622 3.99**

Package of 5 Rectifiers



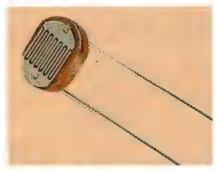
Rated 6 amps, 50 PIV. Ideal for replacement and power supply projects. **276-1661** . . . **3.99**

Package of 5 Regulators



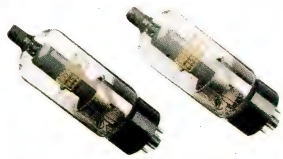
Regulator pack includes one 7805, one 7812 and three other types. **276-1660** . . **3.99**

Package of 5 Photo Cells



Cadmium-sulfide photo resistors. Ideal for experiments. Various styles and ratings. **276-1657** . . **3.99**

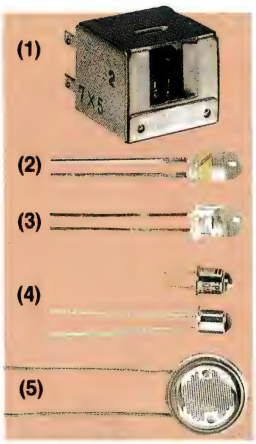
Tandy Still Stocks Valves — Whatever the Job!



Valve Type	Cat. No.	Each
PL508	24-9801	12.95
PL509/519	24-9802	39.95
PY500A	24-9803	14.95
PCF802	24-9804	6.95
PCF80	24-9805	6.95
PCF82	24-9806	5.95
PCL82	24-9807	6.95
1S2	24-9004	5.95
1X2/B	24-9008	24.95
6AL3	24-9042	6.95
6AU4GT	24-9052	19.95
6BL8	24-9070	7.95
6BMB	24-9071	7.95
6BQ5	24-9075	5.95
6CA7	24-9086	21.95
6CM5	24-9095	13.95
6DX8	24-9109	6.95
6JE7	24-9114	6.95
6GV8	24-9131	6.95
6GW8	24-9132	6.95
6U9	24-9168	9.95
6X9	24-9173	9.95
6Y9	24-9174	12.95
12AU7A	24-9195	5.95
12AX7	24-9197	7.95

Speak to Your Store Manager about the Large Quantity Discounts Available

PROJECT OPTOELECTRONICS



Infra-Red LEDs CdS Photocell

(1) NEW! Infrared Detector Module. Build reliability into your next IR control project and end the guesswork. Combines a detector, amp, limiter, bandpass filter, demodulator, integrator and comparator. Requires 5VDC. **276-137** **6.95**

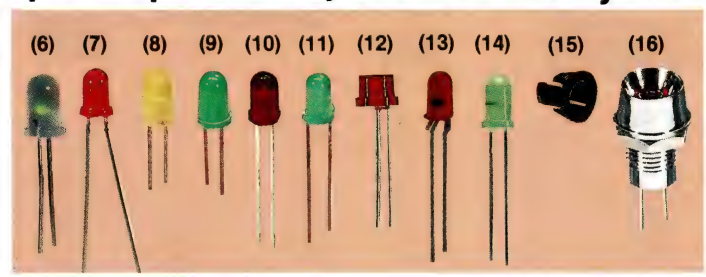
(2) SEP8703-1. Low power design, high-output infrared (IR) LED. **276-143** **3.49**

(3) TIL414. IR phototransistor. High-speed NPN. 50 mW. T-1¾ case. **276-145** **1.99**

(4) IR Pair. LED infrared transmitter, sensitive phototransistor detector. **276-142** .... **Pair 3.99**

(5) CdS Photocell. Wide resistance range photoresistor rated 200 mW at 170 volts, maximum. **276-116** **3.99**

Spruce up Your Projects with Quality LEDs



(6) NEW! Dual-Color LED. DC flow in one direction gives red, the opposite gives green. Two-lead, T-1¾ case. **276-012** **2.49**

(7) Jumbo Red LED. T-1¾ case. **276-041** ..... **Pkg. 2/1.49**

(8) Jumbo Yellow LED. T-1¾ case. **276-021** ..... **Pkg. 2/1.99**

(9) Jumbo Green LED. T-1¾ case. **276-022** ..... **Pkg. 2/1.99**

(10) Mini Red LED. T-1¾ case. **276-026** ..... **Pkg. 2/1.49**

(11) Mini Green LED. T-1¾ case. **276-037** ..... **Pkg. 2/1.99**

(12) TLR-107 Brilliant Red LED. 3/16" mtg. hole. **276-033** ..... **Pkg. 2/1.99**

(13) Blinking Red LED. MOS IC driver and LED in a T-1¾ case. Approximately 20 mA at 3VDC. Can drive several extra plain LEDs in series. **276-036** ... **2.99**

(14) Blinking Green LED. Flash rate 1 Hz, typical. T-1¾ size. 55 mA at 3VDC. **276-030** **2.99**

(15) T-1¾ LED Holders. Fit ¼" mounting holes. **276-079** ..... **Pkg. 5/1.49**

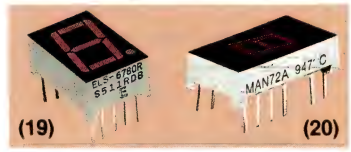
(16) Chrome LED Panel Lamp Holders. Accept standard T-1¾ (jumbo-size) LEDs. **276-080** ..... **Pkg. 2/2.49**

Bar Graph Displays

(17) Multi-Colored LED Display. Ten-segment array with red, yellow and green LEDs. **276-083** **7.95**

(18) Red LED display. Easy way to add fast-response metering to audio and other circuits. Ten segment array. Fits standard 20-pin socket. **276-081** **5.95**

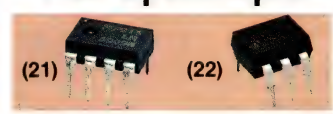
LED Digital Displays



(19) Jumbo 7-Segment Display. Extra-large 15mm digits are easy to read — even across the room. Common cathode. **276-077** .. **3.99**

(20) Seven-Segment Display. Fit 14-pin DIP socket. 8mm. Specs included. **276-075** **3.99**

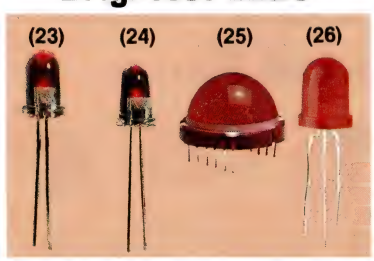
LED Flasher IC and Triac Optocoupler



(21) LM3909 LED Flasher. Pulses LEDs with minimum of current, other parts. 8-pin DIP. **276-1705** **3.49**

(22) MOC3010 Optocoupler. Use for interface between logic-level signals and 120VAC circuits up to 100 mA. 6-pin DIP. **276-134** **3.99**

Our Biggest and Brightest LEDs



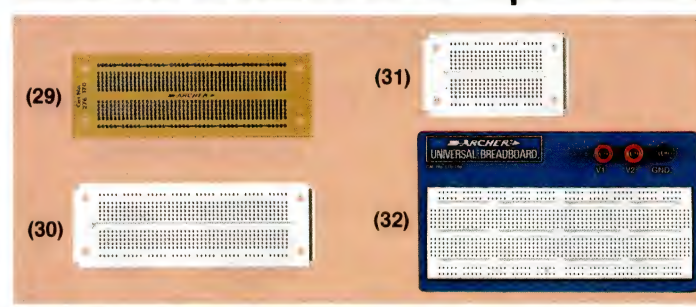
(23) NEW! Super-Bright LED. So brilliant you can't believe it's an LED! 2000 mcd output was possible only in the lab a short time ago. Requires 1.85V, 20 mA. **276-087** **3.49**

(24) High-Brightness Red LED. 500 mcd at 20 mA, yet runs cool. Point-source type in a clear T-1¾ package. **276-066** **2.49**

(25) Super-Jumbo Red LED. Six LED elements in a huge 20mm display. **276-064** **6.95**

(26) Jumbo Red LED. Two LED elements in a 10mm diameter housing. Three-lead pinout for separate current-limiting resistors. **276-065** **2.49**

Solderless Breadboards for Experimenters



The fast way to design circuits! Our breadboards accept a wide variety of devices and make circuit changes as easy as plugging and unplugging wires. When your circuit is working properly, it's easy to transfer it to the matching experimenter's PC board for a soldered, permanent version.

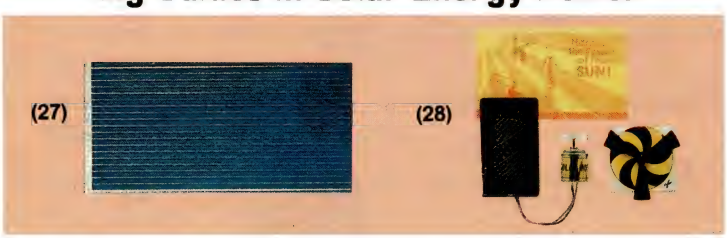
(29) Printed Circuit Board. Layout matches modular breadboard sockets. 550 predrilled, indexed connection points. 5.2x13.8x.16cm. **276-170** **5.95**

(30) Modular IC Breadboard Socket. Silver-nickel contacts accept 30 to 22-gauge solid wire. Features two bus strips and 550 indexed connection points. Snap together horizontally or vertically for more complex designs. 5.4x15.2cm. **276-174** **24.95**

(31) Modular IC Breadboard Socket. Smaller version of fig. 2 with 270 indexed connection points. 5.4x9.2cm. **276-175** **14.95**

(32) Universal Breadboard. Our finest! The 5.7x16.5cm breadboard is mounted on a 17.8x10.2cm "stay-put" steel base with rubber feet. Accepts DIPs, discrete components and up to 22-gauge wire. Provides a total of 640 plug-in tie points and has three binding posts for external power connections. Recommended for students and professionals alike. **276-169** **39.95**

Big Values in Solar-Energy Power



(27) Silicon Solar Cell. Efficient 2x4cm cell delivers approximately 0.3 amp at 0.55VDC in full sunlight. Use several together to charge batteries or power projects. **276-124** **7.95**

(28) Solar Energy Project Set. Just what you need for your models & solar science projects. Includes solar cell prewired to DC motor, colour wheels & propeller. Informative booklet with projects. **277-1201** .. **24.95**

WIDE SELECTION OF CAPACITORS

Electrolytic Capacitors

Low As **99¢** Axial Type Axial Types

uF	WVDC	Cat. No.	Each
4.7	35	272-1012	.99
10	35	272-1013	.99
100	35	272-1016	.99
1000	35	272-1019	2.49
2200	35	272-1020	3.49
4700	35	272-1022	5.49
1000	50	272-1047	2.99
2200	50	272-1048	4.49

Low As **99¢** Radial Type Radial Types

uF	WVDC	Cat. No.	Each
4.7	35	272-1024	.99
10	35	272-1025	.99
47	35	272-1027	.99
100	35	272-1028	.99
220	35	272-1029	.99
470	35	272-1030	1.49
1000	35	272-1032	1.99

Hi-Q Ceramic Discs

Low As **99¢** Pkg. of 2

For RF, Bypass and Coupling Applications

Moistureproof coating, Hi-Q design for low loss in RF circuits.

pF	WVDC	Cat. No.	2-Pack
4.7	50	272-120	.99
47	50	272-121	.99
100	50	272-123	.99
220	50	272-124	.99
470	50	272-125	.99

µF	WVDC	Cat. No.	2-Pack
.001	500	272-126	.99
.0047	500	272-130	.99
.01	50	272-131	.99
.047	50	272-134	.99
.1	50	272-135	.99

For Printed Circuits

Low As **99¢** Pkg. of 2 50 WVDC

Mini size. Long leads permit point-to-point wiring, too.

uF	Cat. No.	Pkg. of 2
.01	272-1065	.99
.022	272-1066	.99
.047	272-1068	.99
.1	272-1069	.99
.22	272-1070	1.49

Non-Polarized

Low As **99¢**

Electrolytics for speaker crossovers and audio filters. 50WVDC.

uF	Approx. Crossover Frequency (8 ohms)	Cat. No.	Each
1.0	10 kHz	272-996	.99
2.2	8 kHz	272-997	.99
4.7	4 kHz	272-998	1.49
10.0	2 kHz	272-999	1.49

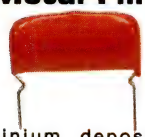
Tantalums

Low As **99¢**

Maximum capacity in an extremely small package. Standard IC pin spacing. 20% tolerance.

uF	WVDC	Cat. No.	Each
0.1	35	272-1432	.99
0.47	35	272-1433	.99
1.0	35	272-1434	.99
2.2	35	272-1435	.99
10	16	272-1436	1.49
22	16	272-1437	1.99

Metal Film



Low As **99¢**

- 250 WVDC
- Epoxy Dipped

Aluminium deposited polyester film for low leakage, high temperature stability. Ideal for PC and point-to-point use.

uF	Cat. No.	Each
.01	272-1051	.99
.1	272-1053	.99
1.0	272-1055	1.99

Trimmers

Low As **2.99**

For low-level RF/IF peaking. Compatible with PC components. Adjustable.

Value	Max. VDC	Cat. No.	2-Pk
5 to 60 pF	110	272-1340	2.99

TV Colorburst Crystal

3.49 Wire Leads

3.579545 MHz. High precision, reliable, accurate, commonly used component, with wire leads for easy installation. **272-1310** **3.49**

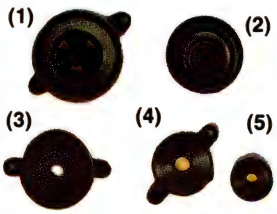
Sound Off! Buzzers for Alerters, Alarms, Timers and Fun!

Tri-Sound Siren

11.95

You've never heard a buzzer like this! Contains an IC, driver circuit and 8-ohm speaker in a compact 3.2x3cm moulded case. Wiring options let you create three distinctive sounds. Provides 80db minimum sound pressure and operates on 3 VDC. **273-072** **11.95**

Piezo Buzzers



(1) Two-Tone. 100dB minimum at 2500 Hz. Has attenuator vanes. Operates 8 to 16 VDC. Requires 130mA at 12 VDC. **273-070** **18.95**

(2) Pulsing or Continuous. Screwdriver terminals. Approx. 2800 Hz pulsed at 1.2 Hz. Output: 90dB at 12 VDC, only 10mA. Operates 4 to 28 VDC. Easily panel mounted. Great as a pre-alarm buzzer for security systems. **273-068** **15.95**

(3) Pulsing. Approx. 2800 Hz, 95dB. 3 to 28 VDC. 12mA at 12 volts. **273-066** **7.95**

(4) With Leads. Piercing 3.6 kHz signal. 4 to 28 VDC. Only 5mA at 12 VDC. **273-060** **5.95**

(5) PC-Mount. Loud, yet consumes only 12mA at 12 VDC. Approx. 3800 Hz. 3-20 VDC. **273-065** **4.99**

Piezo Elements

(6) NEW! Piezo Transducer. Two-wire type is ideal for use with digital circuits. 1500 to 3000 Hz. Up to 90dB output at 2.5 kHz. Requires external driver. 3.5cm mtg. centres. **273-073** **2.99**

(7) Fixed-Frequency. Three-wire type. Up to 90dB at 6.5 kHz. Requires external driver circuit. 2.9cm mtg. centres. **273-064** **4.99**

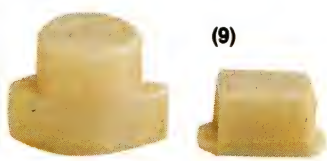
Electronic Chime

14.95

Pleasant "Ding-Dong" Output

This melody-synthesizing IC and mini-speaker combo is a unique alternative to regular buzzer or piezo sounds when used with door enty alarms. Operates 6 to 18 VDC. Sound pressure: 80dB at 12 VDC. Mounting holes: 3.7cm apart, 13cm leads. **273-071** **14.95**

Electronic Buzzers



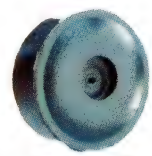
4.99 Each Extra Loud

(8) Pulsing Buzzer. Piercing 80 dB output with 2 Hz pulse rate. Requires 12 VDC at 20 mA. Mounting holes: 3.2cm apart. 12cm leads. **273-058** **6.95**

(9) Mini DC Buzzers. Small enough to hide, loud enough to demand attention! 2.7cm mounting centers. With leads.

DC Voltage	Cat. No.	Each
1½ to 3	273-053	4.99
6	273-054	4.99
12	273-055	4.99

Electromechanical Buzzers



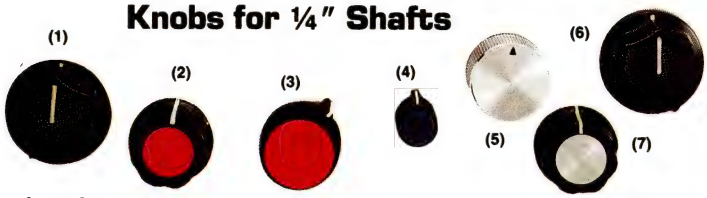
4.99

Super Loud!

DC buzzer with low current drain — ideal for battery circuits. 5.1cm diameter by 4.4cm. Metal case with leads. 12 VDC.
273-051 . . . . . **4.99**
6 to 9 VDC. 273-052 . . . . . **4.99**

RESISTORS AND CONTROLS AT LOW PRICES

Knobs for ¼" Shafts



Low As **1.99** Pkg. Of 2

A wide variety of rugged and stylish Archer® knobs for new equipment or replacement use. All have brass bushings and set-screws for positive locking. *See page 55 for car stereo replacement knobs.*

(1) Communications. 38mm dia. by 17mm. Knurled grip, square pointer notch. **274-402** ..... **Pkg. of 2/1.99**

(2) Communications. Red insert for a bright new twist. 27mm dia. by 33mm. Indexed. **274-432** ..... **Pkg of 2/3.99**

(3) NEW! Red Insert. Adds a contemporary look to any project. 25mm dia. by 16mm. **274-433** ..... **Pkg. of 2/2.99**

(4) Blue Insert. 13mm dia. by 14mm deep. Color-matched to our #270-220-series of blue enclosures. **274-403** ..... **Pkg. of 2/2.49**

(5) Contemporary. 25mm dia. by 16mm. Metal over plastic, handsome engraved finish. Great for tuning and volume controls. **274-424** ..... **Pkg. of 2/4.49**

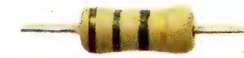
(6) Hexagon. 35mm by 16mm. **274-407** ..... **Pkg. of 2/2.49**

(7) Hexagon With Aluminium Insert. 19mm x 11mm. Indexed. **274-415** ..... **Pkg. of 4/3.99**

25mmx14mm. Indexed. **274-416 Pkg. of 4/3.99**

½-Watt Resistors

39¢ Pkg. Of 2



10% Tolerance

Ohms	Cat. No.
10	271-001
15	271-003
22	271-005
33	271-007
47	271-009
68	271-010
82	271-011
100	271-012
150	271-013

Ohms	Cat. No.
220	271-015
270	271-016
330	271-017
390	271-018
470	271-019
560	271-020
680	271-021
1k	271-023

Ohms	Cat. No.
1.2k	271-024
1.5k	271-025
2.2k	271-027
3.3k	271-028
4.7k	271-030
10k	271-034
15k	271-036

Ohms	Cat. No.
22k	271-038
47k	271-042
100k	271-045
150k	271-047
220k	271-049
470k	271-053
1 meg	271-059

¼-Watt Resistors

49¢ Pkg. Of 5

5% Tolerance

Ohms	Cat. No.
10	271-1301
100	271-1311
150	271-1312
220	271-1313
270	271-1314
—	—

Ohms	Cat. No.
330	271-1315
470	271-1317
1k	271-1321
2.2k	271-1325
—	—

Ohms	Cat. No.
4.7k	271-1330
10k	271-1335
22k	271-1339
33k	271-1341
—	—

Ohms	Cat. No.
47k	271-1342
100k	271-1347
220k	271-1350
470k	271-1354
1 meg	271-1356
10 meg	271-1365

Pocket Guides

(8) Color Codes. Handy! Match colors to get accurate readout of resistor, capacitor, inductor values. **271-1210** **1.49**

(9) Ohm's Law. Easy to use—quickly answers Ohm's law and parallel resistance calculations. **271-1211** ..... **99¢**

Thermistor

3.99

High Precision

Converts temperatures to proportional resistances. Ideal for any circuit relying on temperature sensing over −50 to +110° C range. 10k-ohm resistance at room temperature (25° C). **271-110** **3.99**

15-Turn Trim Pots

2.99 Each

- **10% Tolerance**
- **¾-Watt**
- **PCB Mount**

1k. 271-342 ..... **2.99**
20k. 271-340 ..... **2.99**

PC-Board Pots

1.49 Each

Thumb or screwdriver adjust. Rated ¼ watt. 260° rotation.

Ohms	Cat. No.
500	271-226
1k	271-227
5k	271-217
10k	271-218

Ohms	Cat. No.
50k	271-219
100k	271-220
1 meg	271-229
—	—

Metal-Oxide

49¢ Pkg. Of 2

Small size with a tight 5% tolerance. One watt.

Ohms	Cat. No.
10	271-151
100	271-152
1000	271-153

5-Watt Rheostat

4.99

25 Ohms. Wirewound pot useful for speaker attenuation and fine circuit adjustment. Tolerance: ± 20%. **271-265** **4.99**

8-Ohm Non-Inductive

Rated 20 Watts, 5% Tolerance

Handy as an impedance-matched power-absorbing element in any audio installation—PA, car and home stereo. Several may be wired in series/parallel for jobs requiring different resistance values or more power handling. **271-120** .. **3.49**

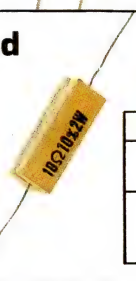
Miniature PC Pots

1.49 Each

⅛ Watt

Ohms	Cat. No.
1k	271-333
10k	271-335
100k	271-338

Wirewound Power Resisters



Low As **99¢** Each

10% Tolerance ■ Axial Leads

Watts	Ohms	Cat. No.	Price
5	0.47	271-130	Ea./.99
10	1	271-131	2/1.99
10	10	271-132	2/1.99
10	50	271-133	2/1.99
10	100	271-135	2/1.99

Panel-Mount Controls

(15) Stereo Balance Control. 1000 ohms. Precision replacement for scratchy balance controls. Also useful in projects where dual-tracking pots are required. **271-261** **2.99**

(16) 100k Stereo Control. Two ganged pots with smooth, precise "feel" 13mm long ¼" diameter shaft. 40% loudness contour tap. ⅜" mtg. hole. **271-1732** **3.99**

(17) Potentiometers. All have a 43mm long, ¼" dia. shaft and mount in a 5/16" hole.

Audio Taper

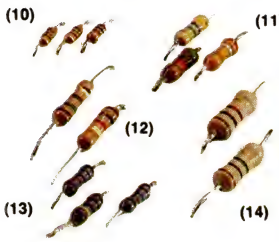
Ohms	Cat. No.	Each
5k	271-1720	1.99
10k	271-1721	1.99
100k	271-1722	1.99
—	—	—
—	—	—

Linear Taper

Ohms	Cat. No.	Each
5k	271-1714	1.99
10k	271-1715	1.99
50k	271-1716	1.99
100k	271-092	1.99
1 meg	271-211	1.99

(18) SPST Pot Switch. On/off switch mounts on rear of audio taper and linear taper potentiometers in charts above and many others. Rated 3 amps at 120 VAC. With instructions. **271-1740** **1.49**

Resistor Kits



(10) ⅛-Watt Carbon Film. 5% tolerance. Set of 100 with 13 popular values from 10 ohms to one megohm. **271-311** ..... **Set 3.99**

(11) ¼-Watt Precision Metal Film. 1% tolerance. 50-piece set with 12 popular values ranging from 10 ohms to one megohm. **271-309** ..... **Set 4.49**

(12) ¼-Watt Carbon. 5% tolerance. 100-piece set with 13 popular values ranging from 10 ohms to one megohm. **271-308** ..... **Set 4.99**

(13) ¼-Watt Carbon Film. 5% tolerance. Jumbo 500-piece set with 54 popular values from 10 ohms to 10 megohms. **271-312** ..... **Set 17.95**

(14) ½-Watt Carbon. 10% tolerance. 100-piece set with 21 popular values ranging from 100 ohms to one megohm. **271-306** **5.95**

LAMPS, BULBS AND ASSEMBLIES

Long-Life Replacement Lamps

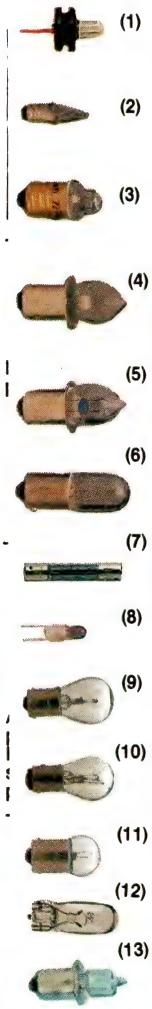
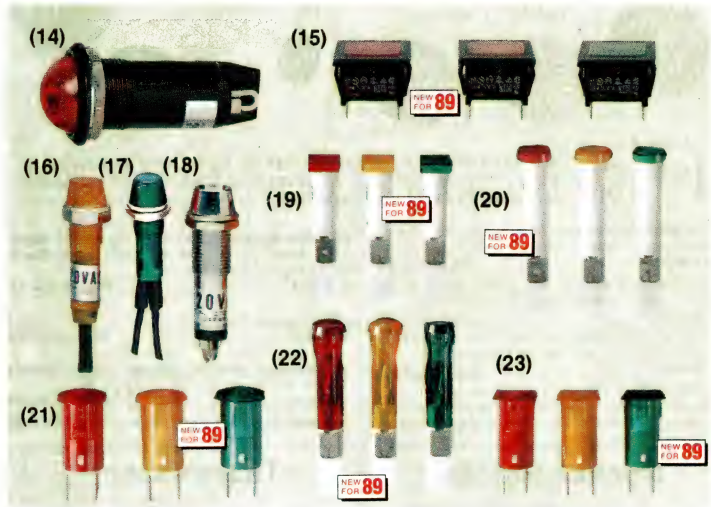


Fig.	Volts	mA	Type	Base	Cat. No.	Pkg. of	Price
1	1.5	25	-	Leads	272-1139	1	1.49
	6.0	25	-	Leads	272-1140	1	1.49
	12.0	25	-	Leads	272-1141	1	1.49
2	6.0	100	T-1¾	E-5 Threaded	272-1142	2	1.49
	12.0	75	T-1¾	E-5 Threaded	272-1143	2	1.49
3	2.33	270	243*	E-10 Threaded	272-1124	2	1.49
	2.47	300	14	E-10 Threaded	272-1132	2	1.49
	6.3	150	40	E-10 Threaded	272-1128	2	1.49
	6.3	250	46	E-10 Threaded	272-1130	2	1.49
	7.5	220	50	E-10 Threaded	272-1133	2	1.49
	14.0	200	1487	E-10 Threaded	272-1134	2	1.49
	14.0	200	52	E-10 Threaded	272-1127	2	1.49
4	2.33	270	PR-4	Flange	272-1122	2	.99
	2.38	500	PR-2	Flange	272-1120	2	.99
	3.57	500	PR-3	Flange	272-1121	2	.99
	4.8	500	PR-15	Flange	272-1125	2	.99
	5.95	500	PR-12	Flange	272-1123	2	.99
5	2.4	600	K1	Flange-Krypton	272-1156	1	1.99
	2.4	830	K2	Flange-Krypton	272-1157	1	1.99
	3.6	800	K3	Flange-Krypton	272-1158	1	1.99
	4.8	700	K15	Flange-Krypton	272-1162	1	1.99
	6.0	650	K12	Flange-Krypton	272-1163	1	1.99
	7.2	700	K18	Flange-Krypton	272-1164	1	1.99
6	6.3	250	44	Bayonet	272-1108	2	1.49
	6.3	150	47	Bayonet	272-1110	2	1.49
	6.3	150	130	Bayonet	272-1155	2	1.49
	14.0	230	1891	Bayonet	272-1112	2	1.49
7	8.0	300	T-3	End Cap	272-1136	2	2.49
	12.0	250	T-3	End Cap	272-1137	2	2.49
8	12.0	40	-	Bi-Pin	272-1154	2	1.99
9	13.5	-	1156	Auto-Bayonet	272-1159	2	3.49
10	13.5	-	1157	Auto-Bayonet	272-1160	2	3.99
11	13.5	-	167	Auto-Bayonet	272-1161	2	2.99
12	6.3	-	259	Wedge General	272-1152	2	1.49
	12V	-	259	Wedge-1.5W	272-9562	2	1.99
	12V	-	259	Wedge-3W	272-9563	2	1.99
13	2.8	860	HPR 52	Halogen	272-1190	1	6.95

*Prefocus. Can replace No. 222.
All bulbs are incandescent type unless otherwise noted.

"New" 240V Neon Lamp Assemblies



Each has prewired dropping resistor. Ready-to-use in 240V AC circuits.
(14) "Jumbo" Red. A pilot light that can't be missed Requires 15.9mm diameter mounting hole. **272-710** **3.49**
(15) Rectangle Style. Snap-in fixing. Mounting hole 12.9x19.7mm. Max. panel thickness 3mm. **Red. 272-7035** **4.49**
Amber. 272-7036 ..... **4.49**
Green. 272-7037 ..... **4.99**
(16) Amber. Requires 8mm diameter mounting hole. With leads. **272-707** ..... **Pkg. of 2/2.99**
(17) Green. With leads. 8mm mtg. hole. **272-708** ..... **Pkg. of 2/3.99**
(18) Red. With chrome holders. Requires 8mm mounting hole. **272-703** ..... **Pkg. of 2/3.49**
(19) Square Lens. Requires 9mm mounting hole. **Red. 272-7032** **3.99**
Amber. 272-7033 ..... **3.99**
Green. 272-7034 ..... **4.49**
(20) Round Lens. Requires 9mm mounting hole. **Red. 272-7029** **3.99**
Amber. 272-7030 ..... **3.99**
Green. 272-7031 ..... **4.49**
(21) Round Lens. Requires 12.7mm mounting hole. **Red. 272-7020** **3.49**
Amber. 272-7021 ..... **3.49**
Green. 272-7022 ..... **3.99**
(22) Round Lens. Requires 10mm mounting hole. **Red. 272-7023** **3.99**
Amber. 272-7024 ..... **3.99**
Green. 272-7025 ..... **4.49**
(23) Square Lens. Requires 12.7mm mounting hole. **Red. 272-7026** **2.99**
Amber. 272-7027 ..... **2.99**
Green. 272-7028 ..... **3.99**

Lamp Holders without Bulbs

(24) E-10 Lamp Holder. Moulded base can be mounted on a flat surface. With screws. **272-357 1.49**
Incandescent Holders. In packages of 6.
(25) For E-5 (T-1¾) Threaded Base. 272-354 ..... **1.99**
(26) For Bayonet Base Lamps. 272-355 ..... **1.99**
(27) For Bayonet Base. 272-325 ..... **Each/2.99**
(28) For E-5 Threaded (T-1¾) Base Lamps. 1x2.7cm. **272-326** ..... **Pkg. of 2/3.49**
(29) E-5 Holders. Includes two red and two white lenses. **272-340** ..... **Pkg. of 2/2.49**

120V Neon Lamp Assemblies

Red, Square Lens. Uses dropping resistor. For 240V use.
272-704 ..... **Pkg. of 2/3.49**

Colored Mini Lamps

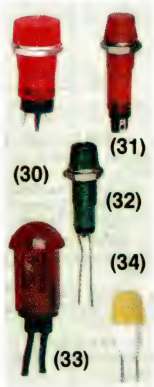
12-Volt Flashing Lamps. 95 mA. 10cm leads.
272-1097 ..... **Pkg. of 3/1.99**
Coloured Mini Lamps. 60 mA. 10cm leads.
6-Volt. 272-1098 . **Pkg. of 3/1.49**
12-Volt. 272-1099 Pkg. of 3/1.49

Xenon Strobe Tube

5.95

For photo flash replacement or use in projects. Trigger: 4 kV. Anode: 200 volts minimum, 300 volts maximum. With data.
272-1145 ..... **5.95**

12V Lamp Assemblies



(30) "Jumbo" Red. 105 mA. For 15mm hole. Solder tabs. **272-336** **3.99**
(31) High-Brightness Red. Solder terminals. For 15mm mounting hole. **272-331** ..... **Pkg. of 2/2.49**
(32) Green Micro. With leads. 60 mA. Require 6mm mounting holes, metal panel recommended. **272-334** ..... **Pkg. of 2/2.99**
(33) Red Snap-In. For 13mm hole. **272-332** ..... **Pkg. of 2/2.49**
Green Snap-In. For 13mm hole. With leads. **272-337 Pkg. of 2/2.49**
Similar to Fig. 33, but blue lenses. **272-335** ... **Pkg. of 2/2.49**
(34) 6 Volt. Two red and two yellow lenses and two snap-in bases for 3mm holes. Solder terminals. **272-341** ... **Pkg. of 2/2.49**

FIX IT WITH SOLDERING TOOLS & HELPERS

Archer® Soldering Irons

(1) 240V AC Phased Control Soldering Iron. 16-25 watts. 250°-450°C temperature controlled. **64-9580** **39.95**

(2) 240V AC 15 Watts General Purpose Soldering Iron. **64-9550** **34.95**

(3) 12V DC 30 Watt 360°-380°C Professional Soldering Iron. With colour coded alligator clips. **64-9570** **29.95**

(4) 25 Watt General Purpose Soldering Iron. Ideal for the professional or handyman. 240V. 50 Hz. **64-9540** **29.95**

(5) 12V DC Soldering Iron. For auto electrical/electronic wiring. 3.3 metre cord with cigarette lighter plug. **64-2105** **11.95**

Replacement Tips

Cat. No.	Replacement Tips	Suits Fig.	Each
64-9551	0.8mm Chisel	1,2,3	7.95
64-9552	1.6mm Chisel	1,2,3	7.95
64-9553	3.2mm Chisel	1,2,3,	7.95
64-9541	Conical/Chisel	4	4.99
64-2065	Conical	5	2.99

Gas-Powered Soldering Iron

NEW FOR 89

54.95

- **Fully Portable**
- **Uses Standard Butane Gas Lighter Fuel**

There's no cords or gas cylinders — this soldering iron offers you full freedom of movement! It runs on standard butane gas cigarette lighter fuel and you get up to 60 minutes of continuous use per tank. And it easily refills in seconds. Adjustable temperature for most projects. 10 to 60 watts. **64-9600** **54.95**

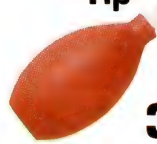
2.4mm Replacement Tip. **64-9602** **21.95**

Soldering Iron Holder & Cleaner

9.95

Coil holds iron safely, pad keeps tip clean. **64-2078** **9.95**

Vacu-Bulb with Teflon Tip



3.99

Takes up solder safely, no splattering. **64-2086** **3.99**

Vacuum Desoldering Tool

9.95

Non-stick tip, side mounted trigger. **64-2098** **9.95**

1.5m Desoldering Braid

3.49

Repair circuits. Use with soldering iron. **64-2090** **3.49**

Four Piece Soldering Aid Set

4.99

Includes brush/scraper, slotted probes. **64-2227** **4.99**

Pre-Cut Tape Solder 100 Pieces

1.99

Wrap around twisted wires, heat with flame. **64-010** **1.99**

Miniature Butane Torch

24.95

- **Self-contained**
- **Heats to 1370°**

Fits in tool kit or pocket. Cylinder lasts up to 60 minutes. Includes refill. **64-2164** **24.95**

Extra Cylinders. 64-2166 . . . . . **2/6.95**

Solder & Tinner

(6) Hi-Tech Solder. 63/37 formula, .050, 43 grams. **64-015** **5.95**

(7) Silver Solder. 62/36/2% formula, .028, 43 grams. **64-013** **6.95**

(8) Tip Tinner/Cleaner. Self-adhesive base. **64-020** . **11.95**

Solder-Weld

5.95

Silver bearing solder paste. Works with a lighter or soldering gun. **64-029** . . . **5.95**

Rosin Core Solder

Low As

1.99

- **Standard, Light or Special PC**

Package	Size	Use	Cat. No.	Each
14g. Handy Pak	1.5	Standard	64-001	1.99
43g. Handy Pak	1.5	Standard	64-002	2.99
113g. Spool	1.5	Standard	64-004	5.95
71g. Spool	.8	Light Duty	64-005	4.99
43g. Spool	1.2	PC Work	64-006	3.99
227g. Spool	1.5	Standard	64-007	11.95

TOOLS & ACCESSORIES FOR WIRING

"Pro" Quality Wire Stripper

Easy To Use

17.95

You get nick-free strips every time with this spring-action tool. For 8 to 22-gauge wire, 17.8cm long. **64-1919 . . . . 17.95**

Crimping Tool Set

17.95 Deluxe Set

Includes heavy-duty tool, 100-piece assortment of popular terminals, compartmented case. **64-409 . . . . . 17.95**

Professional Tools

9.95

11.4cm Diagonal Cutters.
64-1813 . . . . . 9.95

High-Quality Tools

6.95

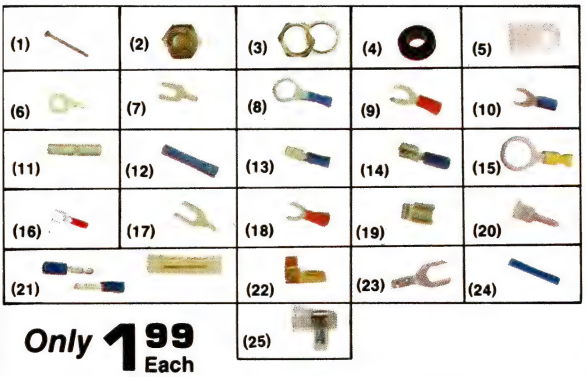
12.1cm Long-Nose Pliers.
64-1843 . . . . . 6.95

Super-Value Tools

6.95

11.4cm Diagonal Cutters.
64-1841 . . . . . 6.95

Low-Priced Hardware Handy-Packs



Only **1.99** Each

(1) Round-Head Machine Screws. 14 each of 2-56 × 1/4", 1/2" and 3/4". **64-3010** **1.99**
4-40, lengths as above. **64-3011** **1.99**

(2) Steel Machine Hex Nuts. 10 each: 2-56. **64-3017** **1.99**
30 each: 4-40. **64-3018** **1.99**

(3) Control Nuts. Eight each: 3/8"-32. 15/32"-32 and seven of .475"-32. **64-3020** **1.99**

(4) Vinyl Grommets. Seven each: 1/4", 5/16", 3/8". Five each: 7/16", 1/2". **64-3025** **1.99**

(5) Polypropylene Cable Clamps. Pkg. of 18. **64-3028** **1.99**

(6) Solderless Ring Tongue. Pkg. of 24. **64-3030** **1.99**

(7) Solderless Spade Tongue. Pkg. of 24. **64-3031** **1.99**

(8) Solderless Insulated Ring Tongue. Four each: #6 (22-18). Two each: #8 (22-18), #6 and #8 (16-14). **64-3032** **1.99**

(9) Solderless Insulated Spade Tongues. Assorted as above. **64-3033** **1.99**

(10) Solderless #10 Spade Tongues. 12 each: (22-18), (16-14). **64-3034**
Same as above, but five each. **64-3035** **1.99**

(11) Butt Connectors. 10 each: (22-18) and (16-14). **64-3036** **1.99**

(12) Insulated Butt Connectors. Pkg. of 10. **64-3037** **1.99**

(13) Male Quick-Disconnects. Pkg. of 8. **64-3038** **1.99**

(14) Female Quick-Disconnects. Pkg. of 8. **64-3039** **1.99**

(15) Insulated Large Ring Tongues. Pkg. of 6. **64-3040** **1.99**

(16) Solderless Spade. Pkg. of 10. **60-3042** **1.99**

(17) Solderless Flanged Spade. Pkg. of 24. **64-3043** **1.99**

(18) Solderless Insulated Flanged Spade. Pkg. of 8. For 22-14 wire size. **64-3044** **1.99**

(19) Female Flag Quick-Disconnect. Pkg. of 10. **64-3046** **1.99**

(20) Solderless Insulated Male/Female Quick-Disconnects. For 22-14 wire size. Includes four sets. **64-3049** **1.99**

(21) Bullet Connectors. Insulated. Pkg. of 9. **64-3047** **1.99**

(22) Single Female to Dual Male Quick-Disconnect. Includes three right angle and three offset. **64-3061** **1.99**

(23) Insulation-Piercing Telephone Spade Lugs. 24 for #22-26 AWG wire. Use Tandy crimper #64-410. **64-3070** . . . . . **Pkg. of 24/1.99**

(24) Telephone Insulated Butt Connectors. 24 for #22-26 AWG wire. Use Tandy crimper #64-410. **64-3073** . . . . . **Pkg. of 24/1.99**

(25) 240V Cable Joiner. 15 amps. **64-9516** . . . . . **Pkg. of 5/1.99**

Nippy Cutters

Spring Action **4.99**

Flush-cutting design lets you trim leads close. 12.7cm long. **64-1833** **4.99**

Needle Nose Pliers

6.95

16.5cm Long-Nose Pliers.
64-1844 . . . . . **6.95**

Super Value

6.95

15.2cm Diagonal Cutters.
64.1845 . . . . . **6.95**

Phone Tool

Cushion Grips **11.95**

For "pro"-quality phone installations. Built-in cutter. Use with 64-3070, 64-3073 phone connectors.
64-410 . . . . . **11.95**

"Dial" Stripper

5.95

Turn dial to strip wire. Insulated grips. **64-1952** . . **5.95**

Stripper/Cutter

Spring Action **4.49**

For 12 to 24-gauge wire insulated. **64-2129** **4.49**

Crimping Tool

6.95 Cushioned Handles

Crimps terminals, strips and cuts 10 to 22-gauge wire. Comfort-grip handles. 21.6cm long. **64-404** **6.95**

Wire Staples

(1) (2)

2.49 Per Pkg.

(1) Mini. Suitable for modular phone wiring.
64-2876 . . . . . **Pkg. of 50/2.49**
(2) Standard. For alarm and speaker wiring.
64-2875 . . . . . **Pkg. of 40/2.49**

Crimp Lugs

3.49 Per Pkg.

Ring, Hook, Large and Small Spades. Five types.
64-406 . . . . . **Pkg. of 100/3.49**
Insulated Crimp Lugs. Three different types.
64-407 . . . . . **Set of 75/3.49**

Telephone Wire Splices

4.99 Pkg. Of 4

Industry standard self-strip type. Use when adding additional outlets, also for alarm wiring.
64-3080 . . . . . **Pkg. of 4/4.99**

Car Power Taps

(1) (2)

Low As **3.99**

For fast and safe hookups to car battery cable.
(1) 50 Amp. 64-3055 . . **6.95**
(2) 15 Amp. 64-3054 . . **3.99**

Wire Tap-Ins

4.99 Pkg. Of 10

Just position and squeeze for a secure tap on 18 to 14-gauge wire. Handy for your auto or home projects.
64-3052 . . . . . **Pkg. of 10/4.99**

QUALITY ACCESSORIES FOR HOBBYISTS!

Electronic STUDFINDER

49.95

New Low Price
Was $54.95 in Catalogue #252

- **LEDs Help Find the Exact Centre of Wall Studs**
- **No More Guesswork**

Simple to use for fast location of studs. Measures the changes in wall density to locate wooden studs. Also locates pipes, electrical wires and conduit. Requires 9V battery. **64-2825** **49.95**

Illuminated Hand Microscope

19.95

- **30x Power Magnification**
- **Throws Light Directly on Object**

Lets you examine jewellery, microcircuits, stamps and other small objects. Compact enough to slip in your pocket. With thumbwheet focus. 14cm long. Requires 2 "AA" batteries. **63-850** **19.95**

Lighted Magnifier

8.95

Read with 7cm main lens or use 2.5cm inset for fine type, coins, maps. Requires 2 "AA" batteries. **63-848** **8.95**

C-Type Mini Clamps

5.49 Set of Three

Securely holds projects together. Three sizes of openings—19, 25, 48mm. **64-2096** **5.49**

Hex Key Set

5.95

Get one set for the car and one for the workbench. Has 18 tempered steel keys to fit popular hex nuts. Complete range of short and long arm sizes. **64-1849** **5.95**

TV Tool Sets

5.95

Includes five pieces. Great value for the repairman. Strong and durable. **64-2220** **5.95**

Nibbling Tool

21.95

Neatly cuts up to 18-gauge steel, 1.6mm copper, aluminium and plastic. **64-823** **21.95**

Mini Drill

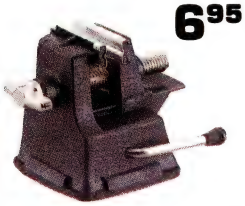
5.95

Two Extra Bits In Handle

For PC boards and light material. 8.2cm long. **64-2097** **5.95**

Mini Vise

6.95



This sturdy mini vise instantly mounts on any smooth surface. With vacuum base. **64-2094** **6.95**

Project Holder

11.95

Ultra convenient! A third hand for soldering, gluing, painting, repairing and more! **64-2093** **11.95**

Handy Knives

8.95

This handy knife set includes 10 interchangeable steel blades. Ideal for use in fine work. **64-1801** **8.95**

Utility Knife

1.99

Snap blade ensures a constantly sharp edge! Comes with an extra blade. 15cm long. **64-1868** **1.99**

Hobby Knife

2.49

All-Metal Handle

This multi-purpose knife features a strong all metal handle with a pointed steel blade. **64-1805** **2.49**

Precision Tool Sets for Detail Work

(1) Assorted Drivers. Includes four Phillips drivers, three nutdrivers, three hex keys, six screwdrivers and a torque bar. **64-1961** **19.95**

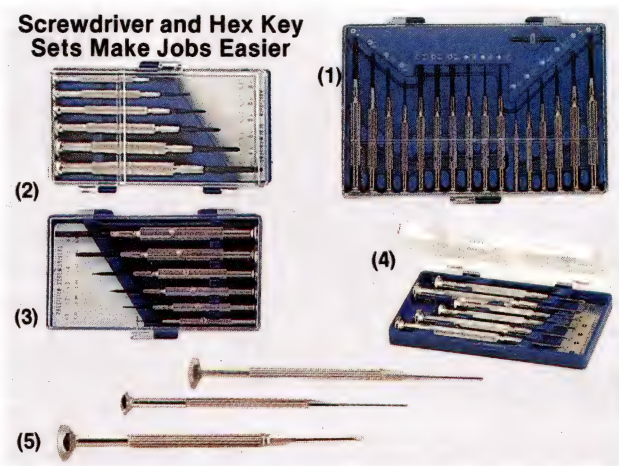
(2) Crosspoint Precision Screwdriver Set. Includes 1, 4, 1.76, 2.02 and 2.4mm for #0 drivers and 2.9 and 3.8mm for #1. **64-1962** **8.95**

(3) Screwdrivers. Set of six in sizes #1-6. Chrome-plated brass handles, swivel tops. Widths from 0.8 to 3.8mm. **64-1948** **6.95**

(4) Combination Screwdrivers. Six precision screwdrivers. One for nearly every job. Two Phillips and four regular. **64-1959** **8.95**

(5) Mini Screwdrivers. For eyeglasses and delicate instruments. Set of three with swivel heads. Includes pouch. **64-1982** **2.99**

Screwdriver and Hex Key Sets Make Jobs Easier



Mini Forceps

3.29

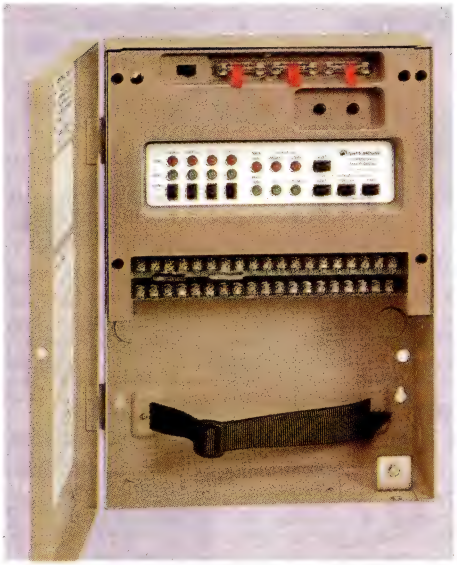
These straight mini forceps are ideal for handling fine electrical parts or PCB components. **64-1910** **3.29**

15cm Forceps

9.95

Ensures a secure grip when holding parts. Has a curved, serrated tip. Stainless steel. **64-1866** **9.95**

SAFEHOUSE® 24-HOUR SECURITY



Burglar and Fire Alarm Centre

349.95

- Four Burglar Zones
- Fire/Smoke Zone
- 24 Hour/Panic Zone

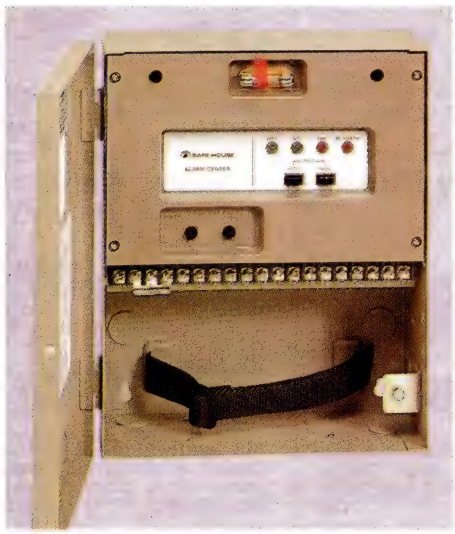
Protect yourself and your home with this sophisticated, easy-to-install perimeter/interior alarm and fire detection system. The control unit's four independently operated burglar alarm trigger "loops" permit selectable zones of protection to suit your family's lifestyle. A supervised fire alarm loop stays armed 24 hours to alert you of smoke or fire instantly. An additional 24-hour protection loop can be connected to switches that immediately alert you of tampering. Or hook up a panic button to sound the alarm instantly, whether system is armed or not. Magnetic switches, smoke temperature, motion and other sensors may be added any time. Transformer plugs into 240V AC. Battery backup in case of AC failure. Variable entry delay up to 40 seconds and exit delay up to 45 seconds. 33x24.1x9.5cm. AC operation. Backup requires 12V Gelcell battery. **49-470** **349.95**
12V Rechargeable Battery. 23-9602 . . . . . **Each 49.95**

Alarm System Package

Save 54.60

Reg. Separate Items 483.60 **$429**

- Alarm Control Unit, 49-470
- 30m of Wire, 278-860
- Electronic Siren, 49-488
- Digital Key Switch, 49-535
- 4 Magnetic Switches, 49-495

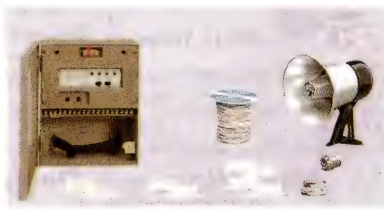


Burglar Alarm Control Centre

199.95

- Reliable 24-Hour Security
- Add Accessories to Custom Design Your Own System

The same type used by the professionals! Design your security around alarm bells, sirens, strobes, key locks, vibration and glass-breakage detectors or motion sensors. The system has two alarm "loops" — one instant, one with adjustable 0-45 second entry/exit delays. Add up to ten arm/disarm key switches for entrances. There's even a 24-hour panic switch circuit. Alarm shuts off after five minutes, then resets. Low-voltage transformer plugs into 240VAC and has automatic battery backup in case of AC failure. Four LED status indicators. Power-on and arm/memory LEDs assure system is armed and ready. Loop indicator lights when all detectors are in their normal state and show if any window or door is unprotected. Battery and bell test buttons. All-steel control unit, 29.1x21x9cm. AC operation. Backup requires 12V Gellcell battery.
49-450 . . . . . **199.95**
12V Rechargeable Battery. 23-9601 . . . . . **Each 29.95**



Alarm System Package

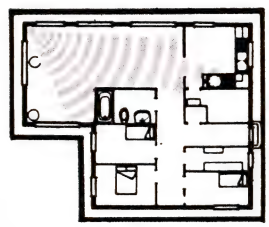
Save 34.60

Reg. Separate Items 303.60 **$269**

- Alarm Control Unit, 49-450
- 30m of Wire, 278-860
- Electronic Siren, 49-488
- Lock and 2 Keys, 49-523
- 4 Magnetic Switches, 49-495

Infrared Motion Alarm System

199.95



- Sounds Loud Internal Alarm, Then Resets
- Easy to Install—Just Plug Into AC
- Detects Intruder's Heat and Motion

Just the thing for apartments and small homes. Sensitive alarm detects intruder's heat and motion in a 6x9m protected space. Use the "walk test" LED to define the protected area. Built-in alarm auto-resets after five minutes. Has 15-second entry and 20-second exit delay. Battery backup if AC fails. Dimensions 9.5x26.6x9cm. 240V AC. Backup requires 8 "C" batteries. **49-308** **199.95**

Visit Your Nearby Tandy Store for Personal Assistance in Selecting the Right Alarm System

RELIABLE ALARM SYSTEM ACCESSORIES

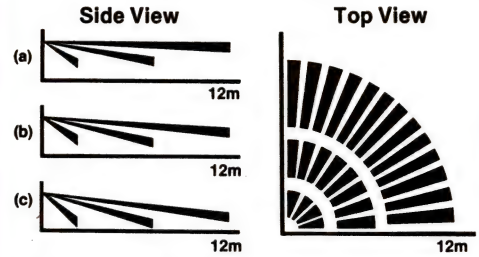
Passive Infrared Detector

99.95 ■ **12 Metre Wide Angle Protection**

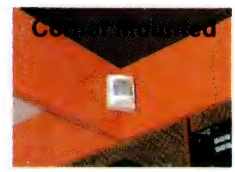
New Low Price Was 149.95 in Cat. #252

Passive Infrared Detector. Catch those intruders before it's too late! Install within your home, office or business for reliable indoor surveillance. With dual element pyroelectric sensor. Measures 7.9 x 4.5 x 6.4cm. **49-9733** **99.95**

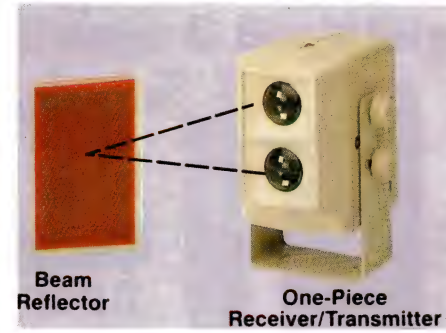
Detection Area



(a) Sliding the PCB downwards, raises the angle of view by up to 7° from the normal (b) below.
(b) Printed Circuit Board Vertical Adjustment Scale set to "0" with respect to the Reference Indicator.
(c) Sliding the PCB upwards, lowers the angle of view by up to 7° from the normal (b) above.



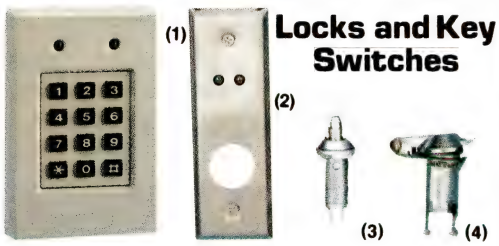
Infrared Photorelay Sensor



69.95 **Pulsed Beam Guards Openings to 9.1 Meters**

Projects an invisible beam of infrared light across a space to the included reflector. When the beam is broken, the sensor instantly alerts your alarm system. With mounting hardware, instructions. Requires 12VDC at 60mA from alarm panel. **49-551** **69.95**

Locks and Key Switches



(1) Digital Key Switch. Programmable secret code arms/disarms system. Requires 10-16VDC at 70mA. **49-535** **49.95**

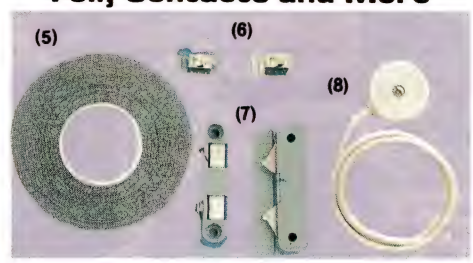
(2) Remote Key Plate. Red and green LED status indicators, tamper switch. For most keyswitches. For 6 and 12VDC. Mounting hardware. **49-524** **14.95**

(3) High-Security Round Lock Switch. Momentary contact for 49-450, 49-470. Two keys. **49-523** . . . **19.95**

Locking. Similar to 49-523 but with locking contact. **49-511** **19.95**

(4) Lock Switch With Cover. Spring-loaded cover, screw terminals. Two keys. **49-515** **9.95**

Foil, Contacts and More



(5) Foil. Connects to alarm and glass. 36.5x9mm roll. **49-502** **12.95**

(6) Adhesive Connectors. 49-504 . . . . . **3 Pair/4.99**

(7) Foil/Vibration Sliding Door Contact. Mount half on window or door, half on frame. **49-518** **9.95**

(8) Glass Breakage Detector. Guards up to 3 square metres. For open or closed circuits. **49-516** . . . **17.95**

Light and Sound Security

(18) High-Power 2-Sound Siren. Loud rise-fall or steady sound. Adjustable base. Weatherproof. Requires 6-12VDC at 1 amp. **49-525** **64.95**

(19) Indoor/Outdoor 2-Sound Siren. Rise-fall or steady sound. Weatherproof. Requires 12VDC at 0.5 amp. **49.488** **34.95**

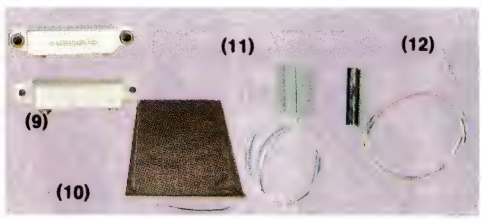
(20) Indoor 2-Sound Siren. Super-loud steady or rise-fall. Ceiling/wall mount. Requires 12VDC at 0.5amp. **49-490** **24.95**

(21) Siren Cover. Fits most sirens. **49-486** **24.95**

(22) Security Strobe Light. Helps police or fire department locate your home quickly during emergencies. Weatherproof. Brilliant 100,000-candlepower strobe is visible even in fog. Requires 12VDC at 0.2amp. **49-527** **34.95**

(23) Warning Decals. Vinyl adhesive mounts on glass windows or doors. Warns would-be burglars. **49-507** . . . . . **Pkg. of 4/2.99**

Door/Window Contacts



(9) Door/Window Switch. For normally closed (N.C.) loops. **49-495** **8.95**

Switch. As above, but contacts open as magnet engages (N.O.). **49-512** **9.95**

(10) Pressure Mat. Contacts close when pressure applied. (N.O.). **49-9522** **39.95**

(11) Mini Magnetic Switch. Contacts close when magnet engages (N.C.). **49-497** **9.95**

(12) Concealed Magnetic Switch. Mounts inside door or window frame (N.C.) **49-496** **9.95**

More Accessories

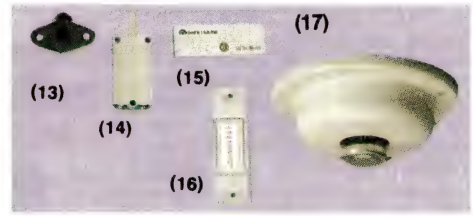


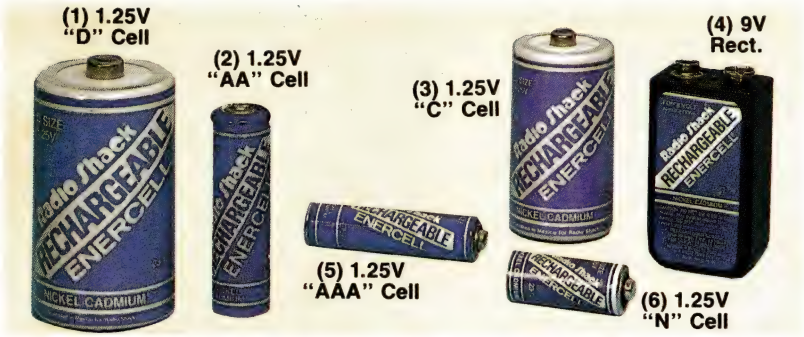
Fig.	Description	Cat. No.	Price
(13)	Contact Switch (N.C.)	49-513	2.99
(14)	Tamper Switch (N.O.)	49-528	2.99
(15)	Vibration Detector (N.C.)	49-521	6.49
(16)	Panic Switch (N.O.)	49-517	2.99
(17)	59°C Heat Sensor	49-482	12.95
	87°C Heat Sensor	49-483	12.95

As magnet engages (N.C.) contacts close, (N.O.) open.

Use of Sirens May Be Prohibited In Some Areas—Check with Local Authorities

VALUE ON ENERCELL® RECHARGEABLES

Nickel-Cadmiums Give You Reusable Power



You can recharge these ENERCELL batteries with one of our chargers on this page. Although nickel-cadmiums cost more than ordinary batteries, they actually cost much less in the long run because they are reusable over and over again!

Fig.	Cell Type	Volts	Amp Hour	Replacement for			Cat. No.	Price
				Eveready	GE	Duracell		
1	"D"	1.25	1.1	CH50	GC3	NC13	23-123	Pkg. of 2/14.95
2	"AA"	1.25	0.450	CH15	GC1	NC15	23-125	Pkg. of 2/9.95
3	"C"	1.25	1.1	CH35	GC2	NC14	23-124	Pkg. of 2/13.95
4	9-Volt*	7.2	0.065	CH22	GC9	NC1604	23-126	Each 21.95
5	"AAA"	1.25	0.150	CH12	—	NC24	23-127	Pkg. of 2/9.95
6	"N"	1.25	0.150	—	—	—	23-121	Pkg. of 2/9.95

*9V applications

HI-CAPACITY™ Heavy-Duty Cells

- Outperform Regular Nickel-Cadmiums
- Always Dependable

Batteries not included
Not for regular nickel-cadmiums

For high-current-drain equipment where dependability is a must. HI-CAPACITY batteries last much longer than regular nickel-cadmium batteries before requiring a recharge.

Fig.	Cell Type	Volts	Amp Hours	Cat. No.	Each
7	"D"	1.25	4.0	23-140	16.95
8	"C"	1.25	1.8	23-141	12.95

(9) HI-CAPACITY Battery Charger. For the higher current required to recharge HI-CAPACITY "C" and "D" batteries. Charges up to four batteries—two different sizes at once.
23-9538 . . . . . **34.95**

Battery Chargers to Fit Any Budget

(10) Standard. For use with "D", "C", "AA" and 9V batteries.
23-9502 . . . . . **24.95**

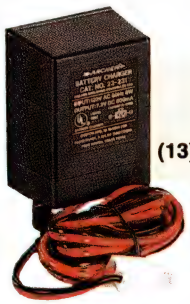
(11) Deluxe. Charges up to 10 "C", "D" or "AA" batteries. Also charges "AAA" or "N" sizes when you add Modules below. **23-9503** **49.95**

"AAA"-Size Module.
23-135 . . . . . **Pkg. of 4/3.99**

"N"-Size Module.
23-137 . . . . . **Pkg. of 4/3.99**

240V AC operation.
Batteries not included

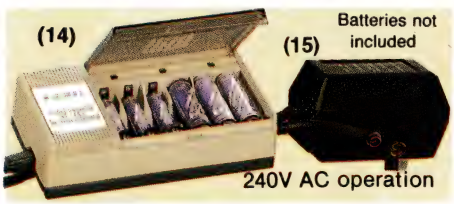
Racing Battery Pack



(12) ENERCELL nickel-cadmium rechargeable pack is designed to get the most from your radio controlled racing vehicles. Six-cell design is ultra lightweight—only 320 grams!
23-230 . . . . . **59.95**

(13) Racing Battery Pack Chargers.
4-5 Hours. 23-9231 . . . . . **24.95**
12-14 Hours. 23-9230 . . . . . **15.95**

Chargers for "AA" and "AAA" Batteries



(14) "AA"/"AAA" Charger. Recharges old batteries for great value! Recharges up to six "AA"/"AAA" batteries quickly for high-powered results. **23-9504** . . **19.95**
(15) Transistor Charger. For nickel-cadmium transistor batteries only. **23-9501** **9.95**

REPLACE-A-CELL™ Ni-Cds

Now you don't have to wait for "exact replacement" battery packs for cordless devices! REPLACE-A-CELL is available in two popular sizes. Also for making your own battery packs.
(16) "Sub C" Size. 1.10 Ah, 1.25V. **23-190** . . . . . **Pkg. of 2/12.95**
(17) "AA" Size. 0.45 Ah, 1.25V. **23-191** . . . . . **Pkg. of 2/8.95**

Sealed Lead Acid Batteries

12 Volt 1.2 Ah. Charge 120 mA 10-14 hours. 100x 53mm. 600g. **23-9601** **29.95**
12 Volt 2.6 Ah. Charge 270 mA 10-14 hours. 134x 68x60mm. **23-9602** **49.95**
240V AC to VDC Charger. For above batteries. Suits both types. **23-9603** **17.95**

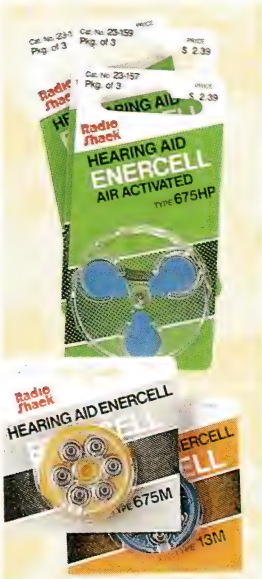
TANDY! HEADQUARTERS FOR BATTERIES

Premium-Quality Alkalines With Long-Lasting Power & Shelf Life

- **Our Best, Longest Lasting Non-Rechargeable Batteries**
- **Long Shelf Life ■ High Output at Low Temperatures**
- **Anti-Corrosion Contacts ■ Cost Less in the Long Run**

Try 'em and see for yourself! Our exclusive alkalines retain full power through long periods of storage at normal temperatures, and work well in the lowest temperatures. Each delivers top performance even under high current drain. Steel clad, insulated and dependable!

Fig.	Cell Type	Replacement for			Cat. No.	Price
		Ray-O-Vac	Eveready	Duracell		
1	"C"	814	E93	MN1400	23-551	Pkg. 2/4.99
2	9V Rect.	A-1604	522	MN1604	23-553	Each 3.99
3	"AA"	815	E91	MN1500	23-552	Pkg. 4/5.95
4	"D"	813	E95	MN1300	23-550	Pkg. 2/5.49
5	"AAA"	824	E92	MN2400	23-555	Pkg. 2/2.99
6	"N"	81C	E90	MN9100	23-023	Pkg. 2/2.99



ENERCELL Hearing Aid Battery Packs

1.45V Air-Activated Packs

Light, yet have about twice the capacity of other types. Air-seal protected for long shelf life.

Tandy	Replaces			Cat. No.	Price
	Ever-eady	Ray-O-Vac	Dura-cell		
675HP	AC675E	R675ZA	DA675	23-157	Pkg.3/4.99
13HP	AC13E	R13ZA	DA13	23-158	Pkg.3/4.99
312HP	AC312E	R312ZA	DA312	23-159	Pkg.3/4.99

1.4V Mercury-Powered Packs

Don't miss a word just because of a bad hearing aid battery! Tandy has long-life replacements.

Tandy	Replaces			Cat. No.	Price
	Ever-eady	Ray-O-Vac	Dura-cell		
P675M	EP675	RP675	MP675H	23-145	Pkg. 6/5.95
13M	E13E	R13	RM13	23-146	Pkg. 6/5.95

Hi-Energy Lithiums

High Leakage Resistance

Outperform alkalines! High energy density, extra-long life, lighter in weight.

Tandy	Replaces			Cat. No.	Each
	GE	Eveready	Duracell		
CR2016H	CR2016	E2016	DL2016	23-160	3.49
CR2025	CR2025	E2025	DL2025	23-161	3.49
CR2032	CR2032	E2032	DL2032	23-162	3.49
CR1620	....	....	....	23-164	3.49
BR2020	....	....	....	23-165	3.49
CR2430	....	....	DL2430	23-166	3.49
CR1616	....	....	....	23-167	3.49
BR2325	....	....	....	23-168	3.49

Calculator and Watch Batteries

Formulated to keep working longer and harder than comparable batteries, these ENERCELLs are custom-engineered for electronic applications.

Tandy	Replaces				Cat. No.	Price
	Eveready	Ray-O-Vac	Duracell	Other		
76	EPX76	RW22/42	D357	G13, 541	23-009	3.99
389	389	RW49	D389	G10, V10GS	23-101	2.49
392	392	RW27/47	D392	G3, 547	23-102	2.49
393	393	RW28/48	D393	G5, 546	23-103	2.99
303	303	....	D303	GS14, 521	23-104	3.99
357	357	RW22/42	D357	G13, 541	23-105	3.99
386	386	RW24/44	D386	G12, 548	23-106	2.99
391	391	RW40	D391	G8, V8GS	23-107	2.49
323	323	RW58	D323	Type C, 506	23-108	2.49
343	343	RW56	D343	Type B, 509	23-109	2.49
362	362	RW310	D362	Type S, 532, SR721	23-110	2.49
364	364	RW320	D364	Type T, 531, SR621	23-111	2.49
396	396	RW411	D396	Type V, 556, SR726	23-112	2.49
399	399	RW413	....	Type W, 543, SR926	23-113	2.49
390	390	RW39/390	D390	603, 534, SR1130	23-201	2.49
329	329	....	....	24, 525	23-202	1.99
371	371	371	D371	SR920, 30, 537	23-203	2.49
377	377	377	D377	SR626, 37	23-204	2.49
384	384	384	D384	SR41, 10, 527	23-205	2.49
395	395	395	D395	SR926, 25, 523	23-206	2.49
397	397	397	D397	SR726, 26, 536	23-207	2.49
675B2	EP675	RP675	MP675	8107, M13	23-1521	Pkg. 2/2.99

Batteries for Your Calculator

Heavy-Duty Alkalines

Outperform and last longer than standard carbon-zinc batteries, even under high current drain conditions. Long storage life.

Tandy	Replaces			Cat. No.	Ea.
	Ray-O-Vac	Eveready	Maxell		
357A	RW82	A76	LR44	23-115	1.49
386A	RW84	186	LR43	23-116	1.49
389A	RW89	189	LR1130	23-117	1.49
391A	....	191	LR1120	23-118	1.49

RADIO-CONTROLLED RACERS

Digital-Proportional Off-Roader with Turbo

NEW FOR 89

229.95

- **Two Speeds**
- **Spring Type Shocks**
- **D-P Steering for Realism**
- **For Hours of Fun**

STOP

Red Arrow. A powerful racing machine that puts you in the fast lane! Features high/low speed control, front/rear suspension, socket for recharging batteries and also includes 7.2V racing battery. 240V AC charger. Requires 8 "AA" batteries and 9V battery for remote control. 27 MHz. **60-4077** **229.95**

Wow! Skateboard Fun

NEW FOR 89

129.95

STOP

- **Digital Proportional Steering for Realism**
- **Dual-Stick Radio Controller**

Take control of this fun-seeking sidewalk racer and be ready for crowd-pleasing skateboard action. You can do wild stunts, spins and other impressive tricks. Soft air-filled tyres, lifelike tilt action. Removable skater. Has jack for recharging Ni-Cd batteries. 35cm long, 27 MHz. Requires one 9V and 6 "AA" batteries.
60-4079 . . . . . **129.95**

Digital-Proportional Off-Roader With Dual-Stick Transmitter

299.95

New Low Price
Was 329.95 in Catalogue #252

- **Digital Proportional Steering for Gradual and Sharp Turns in Forward and Reverse**
- **Friction Damper Front and Rear Shock Absorbers Reduce Bounce to Keep Buggy on Track**
- **Rechargeable Battery Pack & Charger**

The fully assembled, 2-channel **Golden Arrow Buggy** has a powerful electronic motor that blows the competition away! Wide, angled bumper lets you "catch waves" at the beach. Features FET motor drive system, trailing arm front suspension and rigid axle rear suspension. With 240V AC charger, 7.2V 1200 mAh nickel-cadmium battery pack. 39cm long. Transmitter requires 10 "AA" batteries. 27 MHz. **60-4070** **299.95**

STOP

Sporty Turbo Racer

NEW FOR 89

99.95

STOP

Pretend you're racing in the Paris/Daccau Rally. Features soft rubber tyres, spring suspension and battery recharging jack. 35.6cm long. 27 MHz. Requires 9V and 8 "AA" batteries. **60-9108** **99.95**

Turbo-Wing Buggy

NEW FOR 89

89.95

STOP

Soft rubber tyres and spring suspension. Impact absorbing front bumper. Jack for charging nickel-cadmium batteries. 35.6cm long. 27 MHz. Requires 9V and 8 "AA" Ni-Cd batteries. **60-4075** **89.95**

Digital Proportional Racer

NEW FOR 89

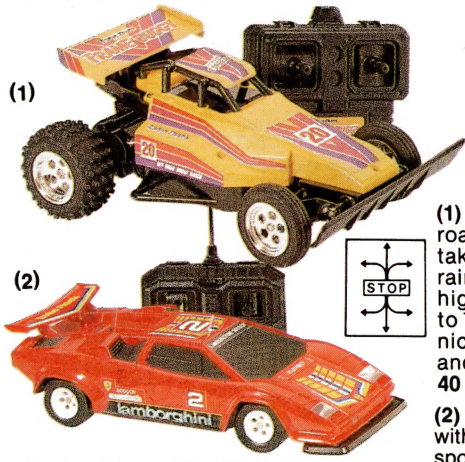
79.95

STOP

With this sleek car get ready for action! Shift into high for speed, or low when taking steep hills. Sturdy front suspension. 33cm long. Requires 2 9V and 6 "C" batteries. 27MHz. **60-4066** **79.95**

Use Dependable Tandy ENERCELL® Batteries for All Your Battery Requirements

RADIO CONTROLLED TOYS FOR EVERYONE



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Frame Buggy and Turbo Lamborghini

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STOP

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Zebra Frame Buggy

STOP

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Robie® the Robot

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23cm High

STOP

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Meet Robie Jr.®

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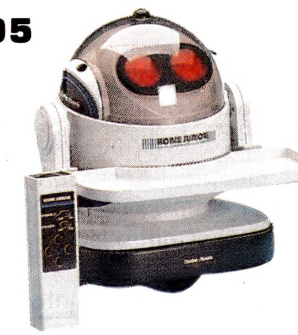
- **Speaks Nine Phrases**
- **Plays "Catch Me"**



Turn Robie Jr. on and he greets you by saying "hello". The remote moves him forward, backward and right or left — he'll even follow after you on his own! Has movable arms and a removable carry tray. 27.6cm high. Requires 9V and 4 "D" batteries. **60-2397 . . . . . 149.95**

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